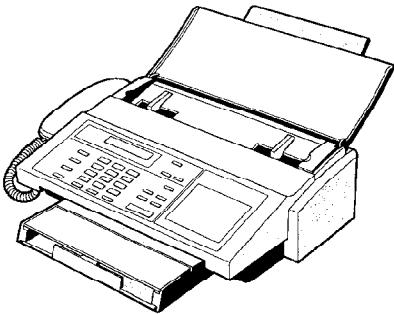


Technical Guide

Facsimile

UF-305 / UF-315 PX-305 / UF-A8300



Please file and use this manual together with the service manual for
Model No. UF-315, Order No. MGCS950301S1 or
Model No. PX-305, Order No. MGCS950302S1 or
Model No. UF-305/UF-315/UF-A8300, Order No. MGCS950401S0.

GENERAL OPERATION\ОБЩЕЕ ОПИСАНИЕ РАБОТЫ

General block diagram\общая блок-схема
Signal route\схема прохождения сигнала
Signal route in copy mode\схема прохождения сигнала в режиме копирования
Signal route in transmission\схема прохождения сигнала в режиме передачи
Signal route in reception\схема прохождения сигнала в режиме приема
Signal route in printing of reports of lists\схема прохождения сигнала в режиме распечатки отчетов и списков
Signal route in memory input\схема прохождения сигнала в режиме ввода в память
Signal route in printing from memory\схема прохождения сигнала в режиме печати из памяти
Signal route in memory transmission\схема прохождения сигнала в режиме передачи из памяти
Signal route in memory reception\схема прохождения сигнала в режиме приема в память
Power on initial flow chart\описание процедуры включения аппарата
Device compare table\сравнительная таблица устройств

MAIN LSI FEATURE AND PIN ASSIGNMENT\ХАРАКТЕРИСТИКИ И ЦОКОЛЕВКА БИС

Main LSI feature and PIN assignment\характеристики и цоколевка основной БИС
CPU (1C 19 : uPD70433) central processing unit\характеристики и цоколевка микропроцессора (1C 19 : uPD70433)
FRIP4 (IC9 : MN86074) facsimile real image processor 4\характеристики и цоколевка микропроцессора обработки факсимильных изображений FRIP4 (IC9 : MN86074)
ISA5\характеристики и цоколевка ISA5
R96DFXL\характеристики и цоколевка R96DFXL
ASIC (GPM3)\характеристики и цоколевка ASIC (GPM3)

ELECTRICAL CIRCUIT\ПРИНЦИПИАЛЬНЫЕ СХЕМЫ

General circuit diagram <for standard model : FCB3>\общая принципиальная схема (стандартная модель)
General circuit diagram <for North America model : FCB3>\общая принципиальная схема (американская модель)
FCB3 PC board (DZYNA1525)\плата FCB3 (DZYNA1525)
LCU PC board (DZYNA1435)\плата LCU (DZYNA1435)
LCE PC board (DZYNA1436)\плата LCE (DZYNA1436)
CCD PC board (DZYNA1428)\плата CCD (DZYNA1428)
SEN (DZYNA1433)\плата SEN (DZYNA1433)
BPS (DZYNA1441)\плата BPS (DZYNA1441)
PNL2 (DZYNA1443)\плата PNL2 (DZYNA1443)
Display PC board (LD57A3A41A)\плата дисплея (LD57A3A41A)
SRU PC board (DZYNA1448)\плата SRU (DZYNA1448)
SRG PC board (DZYNA1437)\плата SRG (DZYNA1437)
GPM circuit diagram\плата GPM
Power supply unit (ETXA39C7A : 100V)\плата питания (ETXA39C7A : 100V)
Power supply unit (ETXA39C7E:200V)\плата питания (ETXA39C7E:200V)
Power supply unit (DS043L : 100V)\плата питания (DS043L : 100V)
Power supply unit (DS069L : 100V)\плата питания (DS069L : 100V)
Power supply unit (DS043H : 200V)\плата питания (DS043H : 200V)

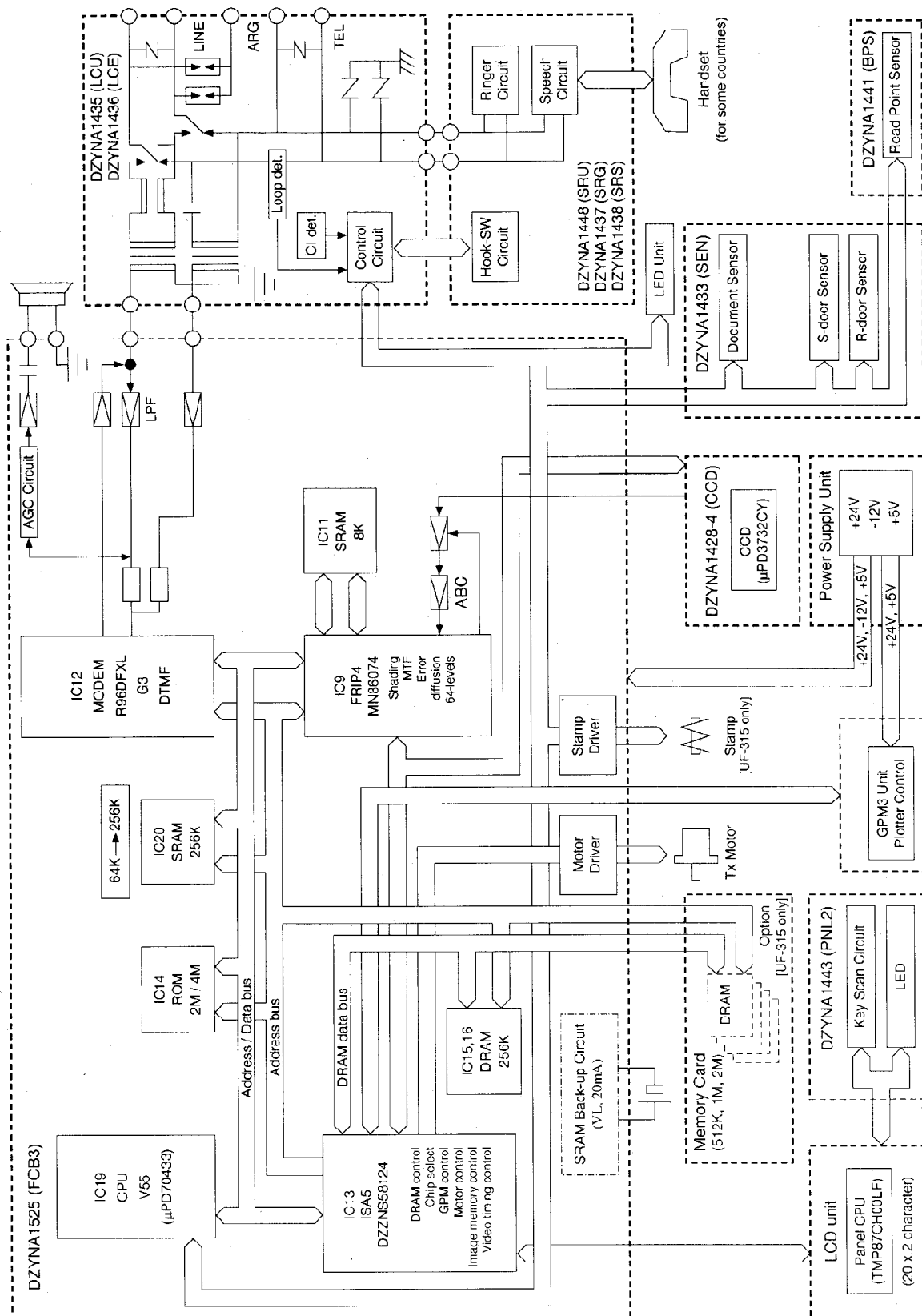
PARTS LIST\СПИСОК ЗАПАСНЫХ ЧАСТЕЙ

FCB3 (DZYNA1525)\плата FCB3 (DZYNA1525)
LCU (DZYNA1435)\плата LCU (DZYNA1435)
LCE (DZYNA1436)\плата LCE (DZYNA1436)
CCD (DZYNA1428)\плата CCD (DZYNA1428)
SEN (DZYNA1433)\плата SEN (DZYNA1433)
BPS (DZYNA1441)\плата BPS (DZYNA1441)
PNL2 (DZYNA1443)\плата PNL2 (DZYNA1443)
SRU (DZYNA1448)\плата SRU (DZYNA1448)
SRG (DZYNA1437)\плата SRG (DZYNA1437)
GPM\плата GPM
POW 100V (ETXA39C7A)\плата POW 100V (ETXA39C7A)
POW 200V (ETXA39C7E)\плата POW 200V (ETXA39C7E)
POW 100V (DS043L)\плата POW 100V (DS043L)
POW 100V (DS069L)\плата POW 100V (DS069L)
POW 200V (DS043H)\плата POW 200V (DS043H)

EXTENSION CABLE UF-305 / UF-315 / PX-305 / UF-A8300\СЕРВИСНЫЕ КАБЕЛИ К МОДЕЛЯМ UF-305 / UF-315 / PX-305 / UF-A8300

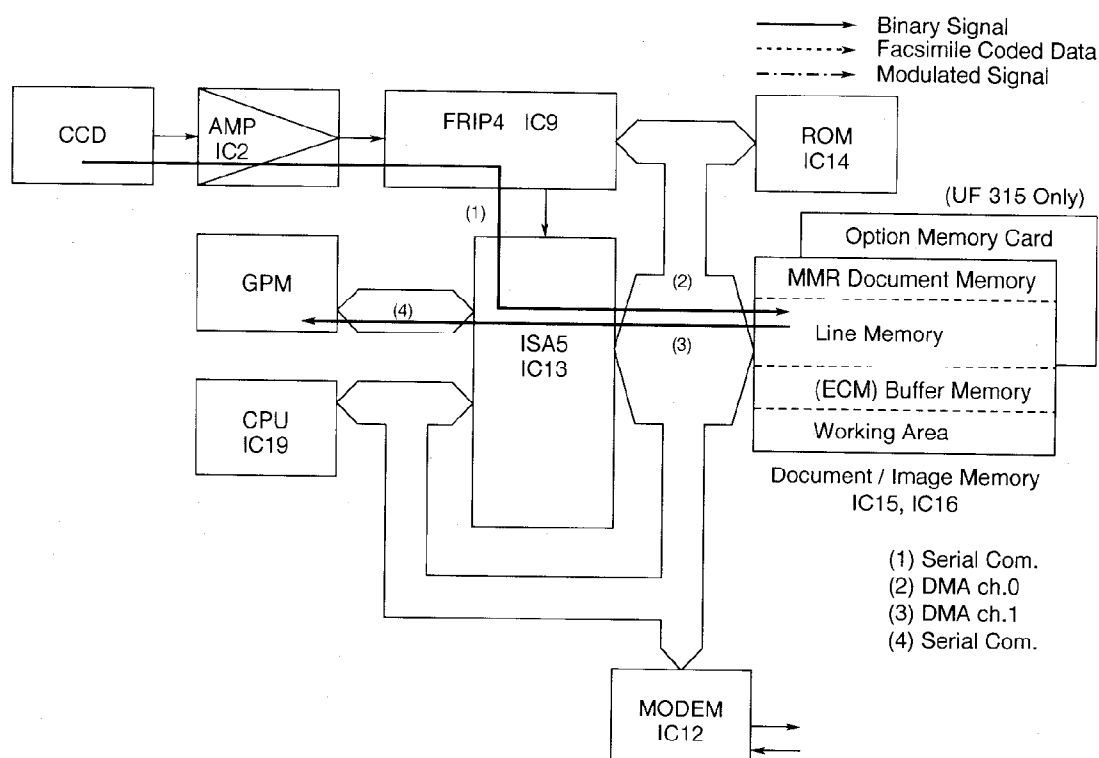
Panasonic

1.1 General Block Diagram

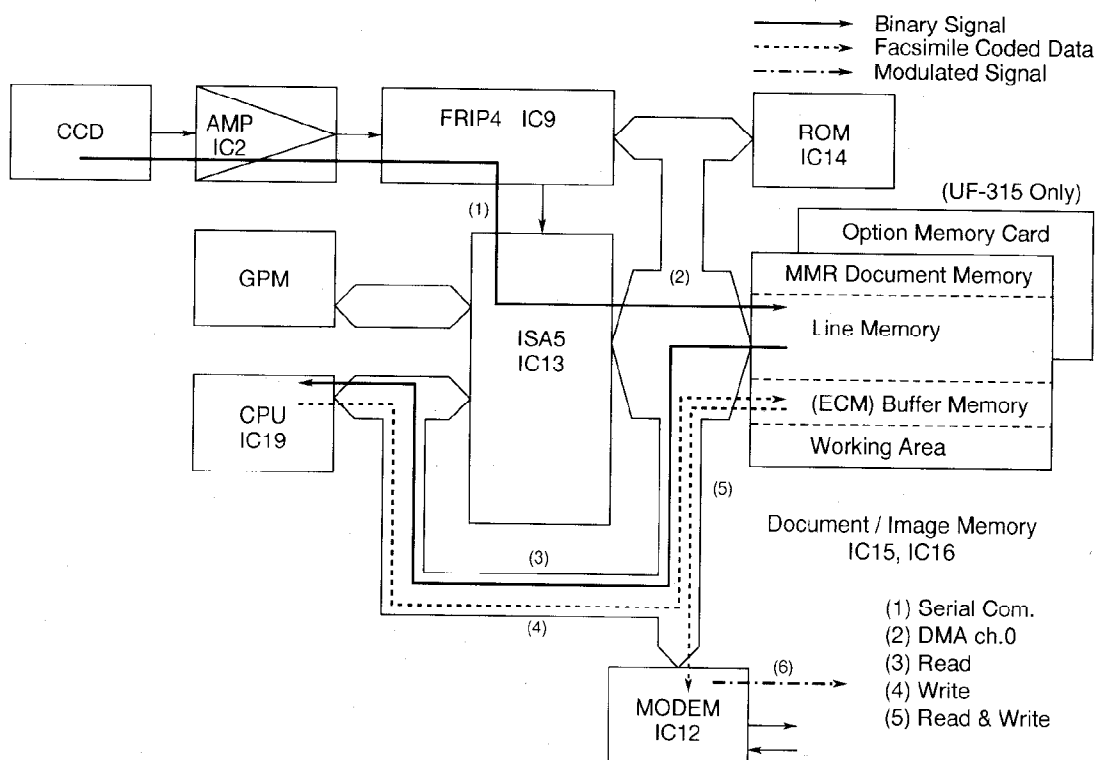


1.2 Signal Route

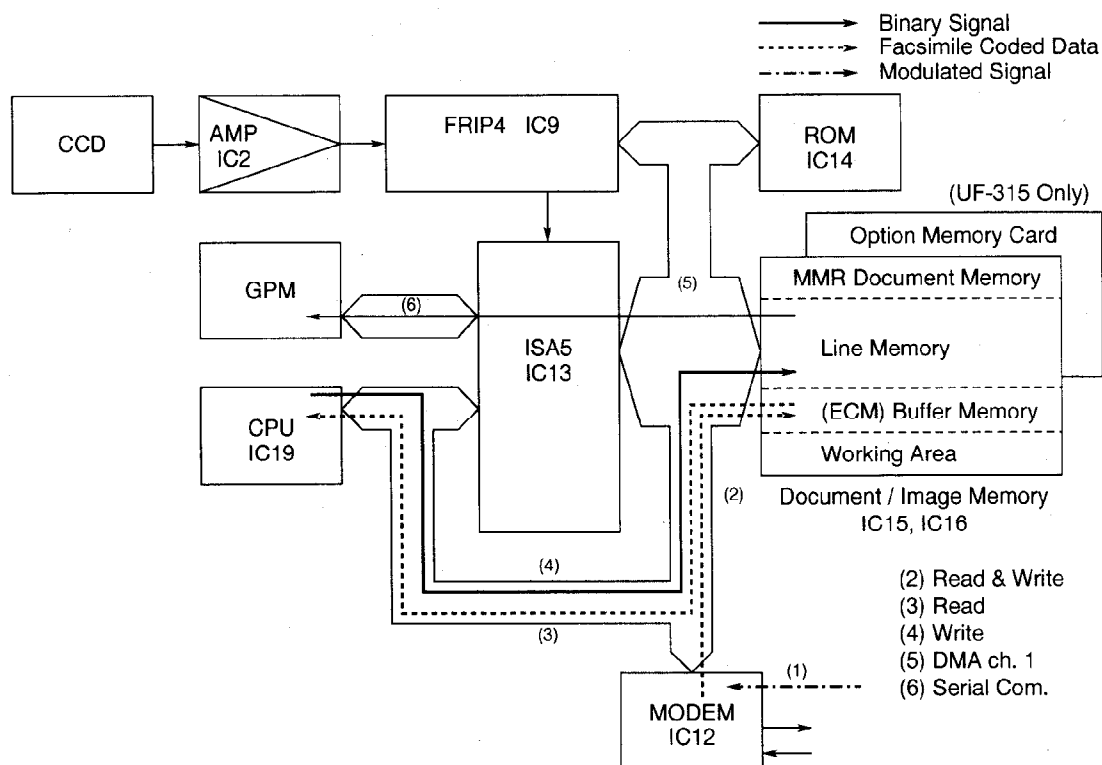
1.2.1 Signal Route in Copy Mode



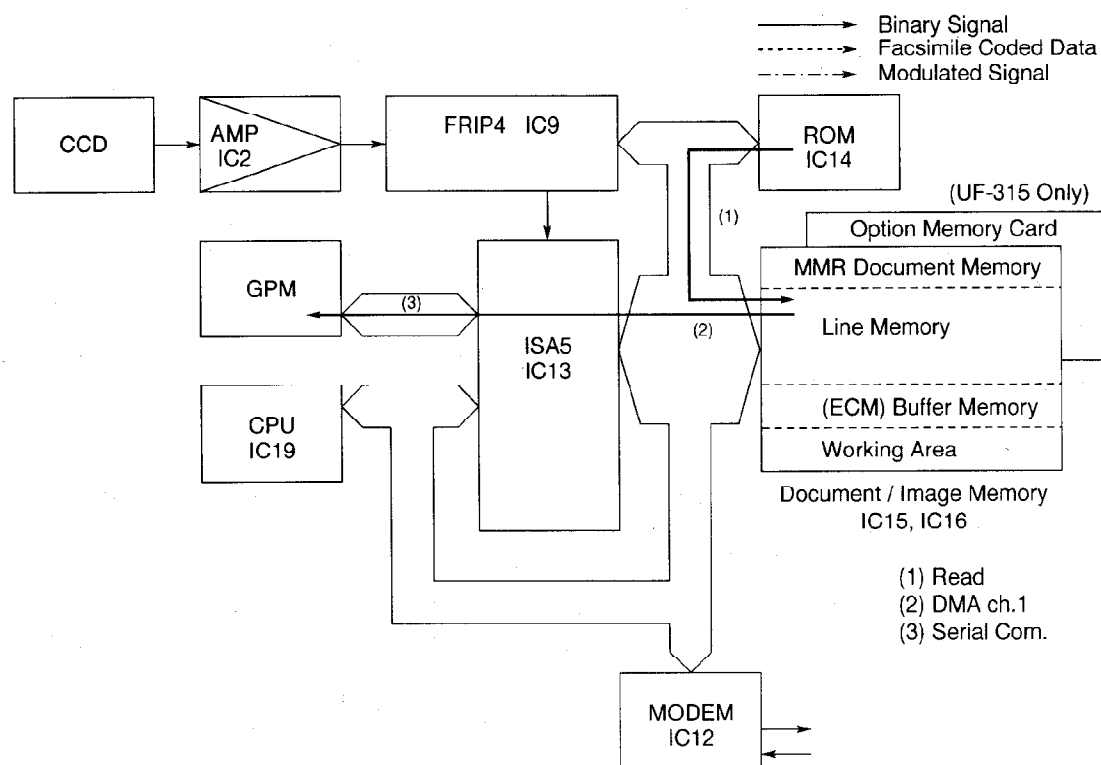
1.2.2 Signal Route in Transmission



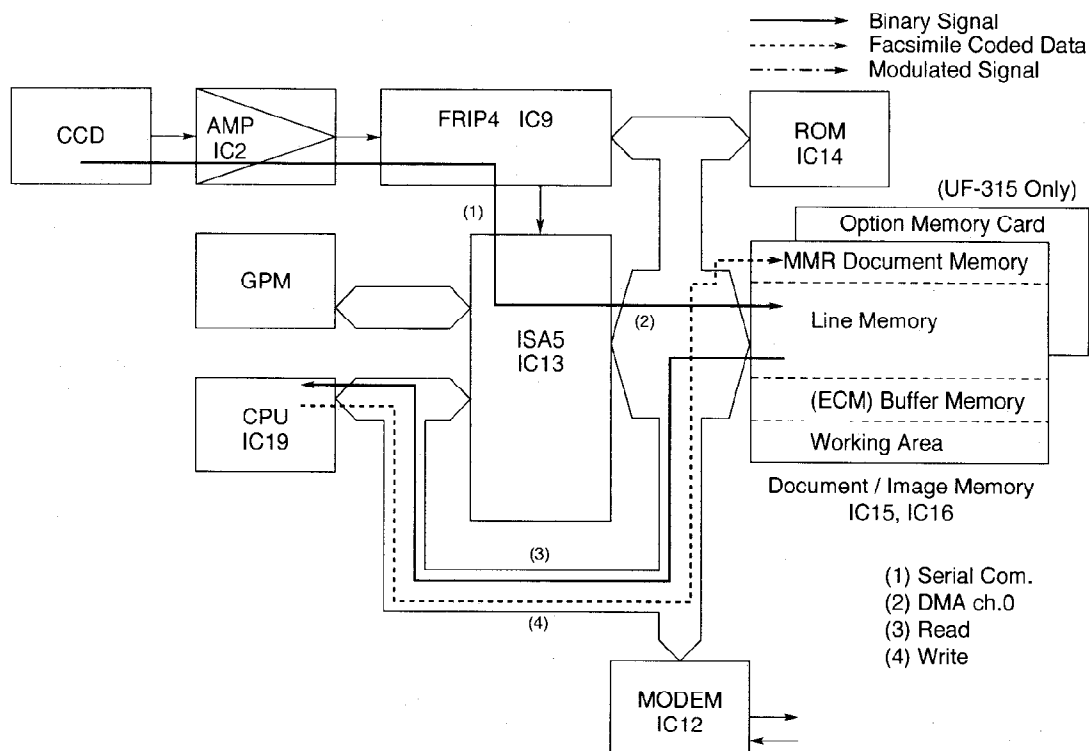
1.2.3 Signal Route in Reception



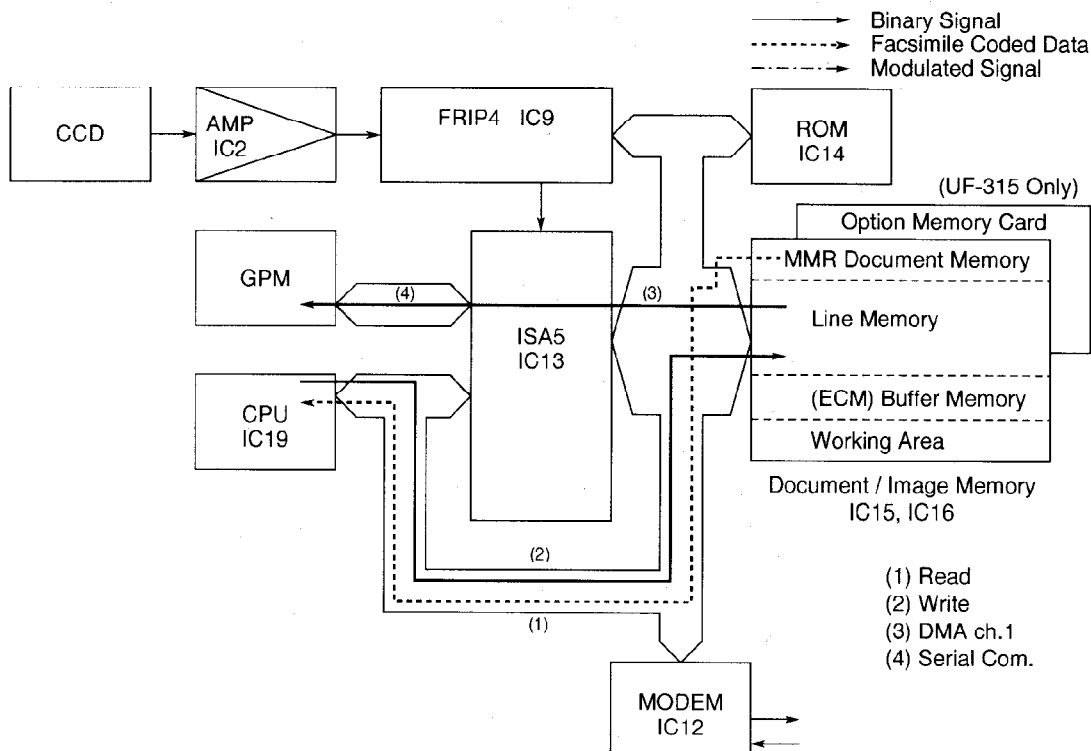
1.2.4 Signal Route in Printing of Reports of Lists



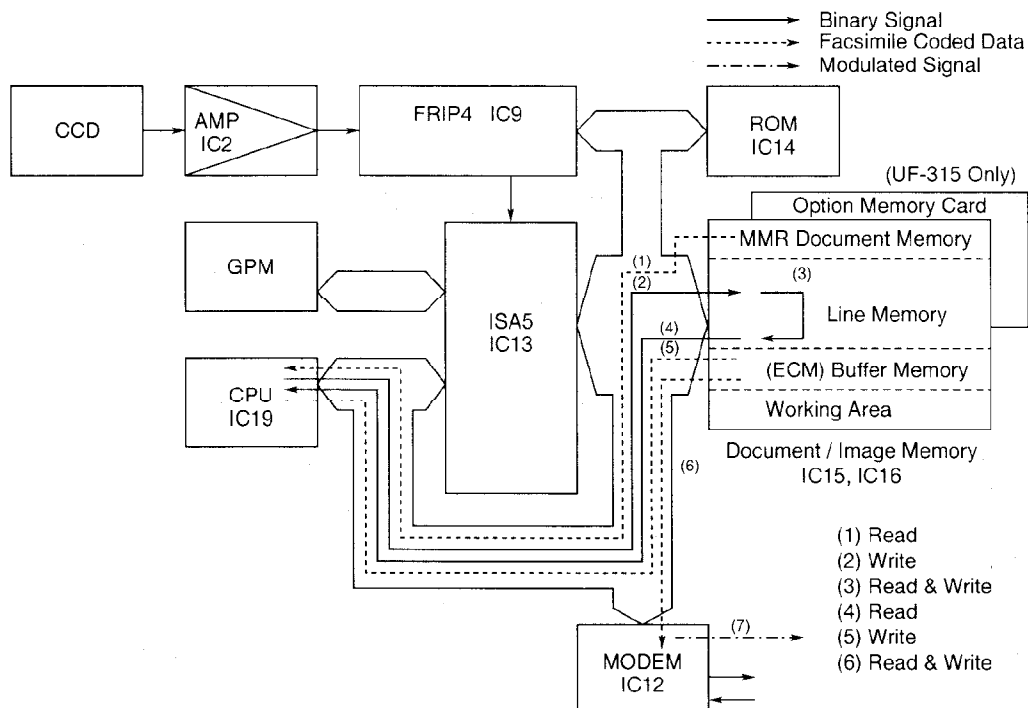
1.2.5 Signal Route in Memory Input



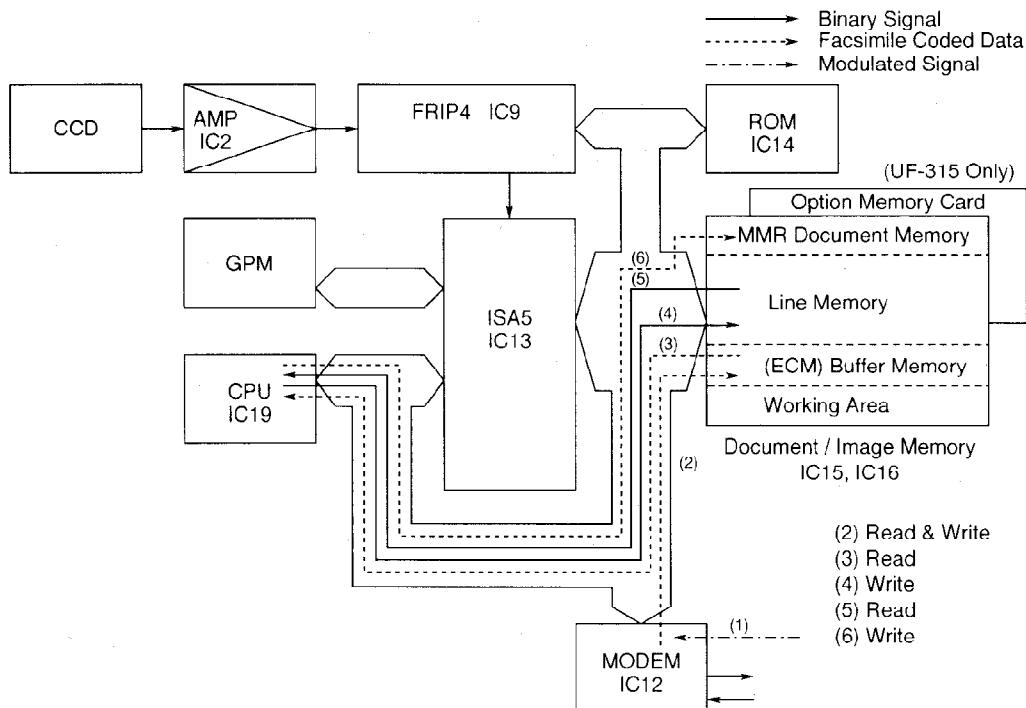
1.2.6 Signal Route in Printing from Memory



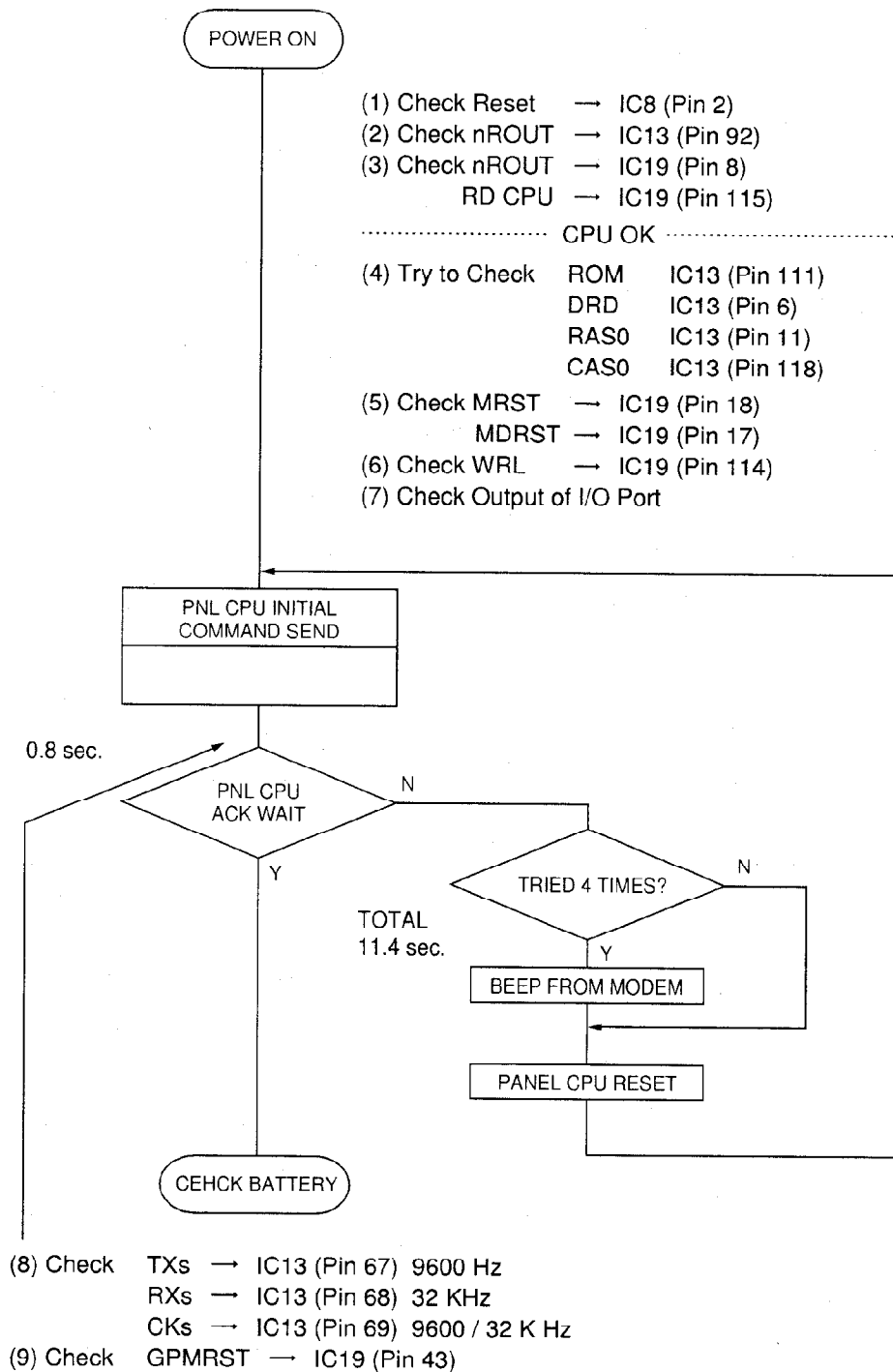
1.2.7 Signal Route in Memory Transmission



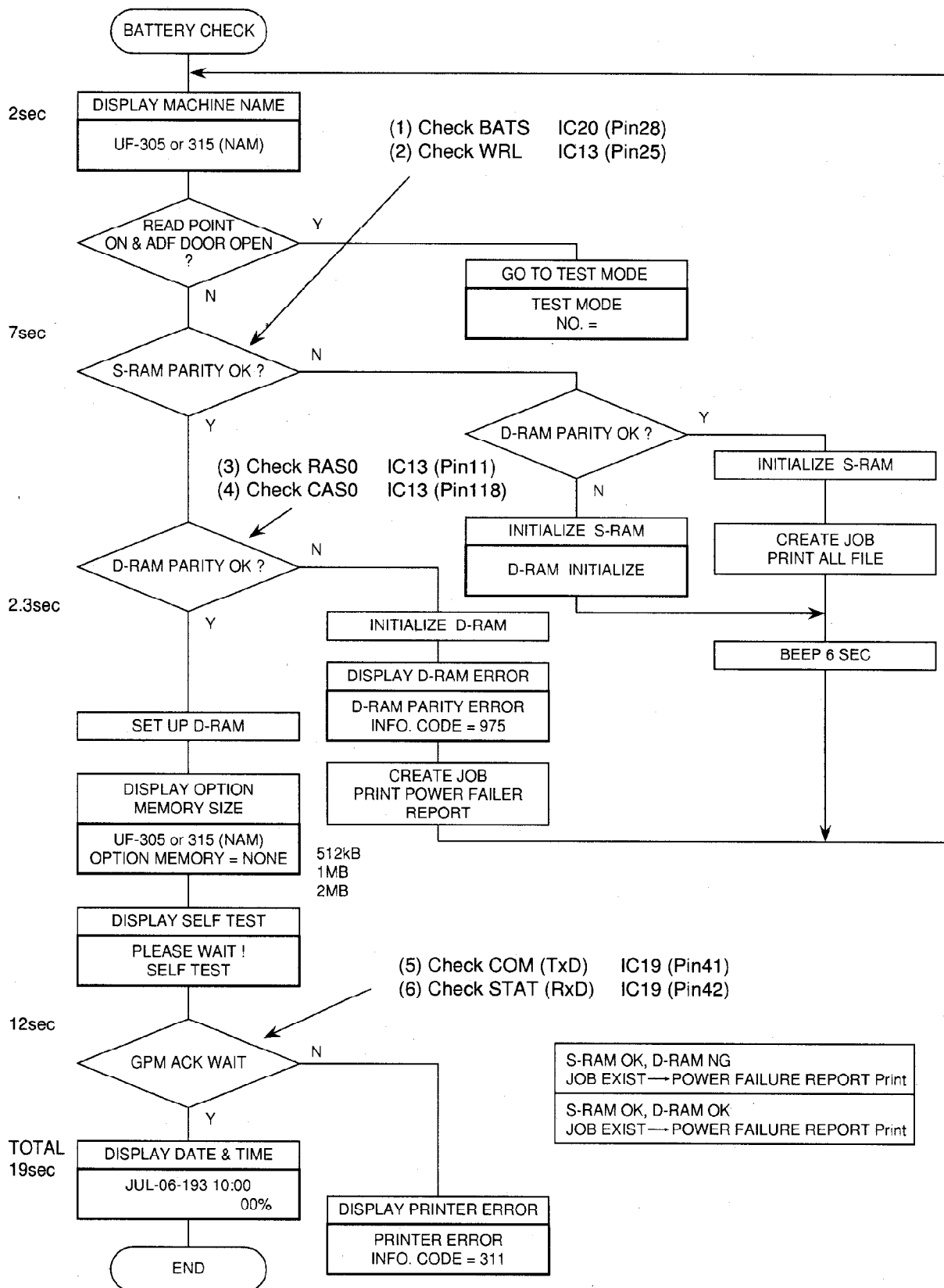
1.2.8 Signal Route in Memory Reception



1.3 Power On Initial Flow Chart (1/2)



Power On Initial Flow Chart (2/2)



1.4 Device Compare Table

Function	UF-322/321 (DZYNA1507)			UF-315/305 (DZYNA1525)		
Scanning	CCD	B4 (UF-322)/A4 (UF-321)		CCD	A4	
LED or Lamp Drive	ISA4	IC24	DZZNS58106	FRIP4	IC9	MN86074
CCD Drive	ISA4 FRIP3	IC12	MN86073	ISA5 FRIP4	IC13	DZZNS58124
TX Motor Control	ISA4			ISA5		
Analog/Digital Converter	FRIP3			FRIP4		
Shading	FRIP3			FRIP4		
Shading Memory	SRAM	IC20	64K	SRAM	IC11	64K
Half Tone	FRIP3	64Levels		FRIP4	64Levels	
Binary Coding	FRIP3			FRIP4		
Reduction Control	FRIP3			FRIP4		
Serial Parallel Conversion	ISA4			ISA5		
Encode Decode	DICEP-A	IC16	HD63183	CPU	IC19	uPD70433
(ECM) Buffer Memory (byte) Document Memory Line Memory	DRAM DRAM	IC2, 33 (256K/UF-321) IC23 (512K/UF-322)		DRAM	IC15, 16	
Modem P/S Conversion DTMF	MODEM	IC15	R96DFXL	MODEM	IC12	R96DFXL
HEAD, GPM or LBP i/f	ISA4 CPU	IC9	uPD70208	ISA5 CPU		
CPU	CPU	IC9	uPD70208	CPU	IC19	uPD70433
System Program	ROM	IC7 (2M/4M)		ROM	IC14 (2M/4M)	
Backup Memory (Journal, Tel, etc)	SRAM	IC18 (64K)		SRAM	IC20 (256K)	
DRAM Control	ISA4			ISA5		
Chip Select	ISA4			ISA5		
ADDR, Latch, D-Bus Buffer	ISA4			ISA5		
DMA Control	CPU			CPU		
Panel I/F	ISA4			ISA5		
Sensor I-Port	ISA4			CPU		
Drive LCU Relay	FRIP3			FRIP4		
LCU Status (CI, Hook OFF etc.) I-Port	ISA4			ISA5		
Real Time Clock	Panel Unit			Panel Unit		
Clock Generator	ISA4			ISA5		

3.1 Main LSI Feature and Pin Assignment

3.1.1 CPU (IC 19 : μ PD70433) Central Processing Unit

- **Bus Control Unit (BCU)**

The BCU serves to control the main bus. The necessary internal / external bus cycles are started based on the physical addresses obtained by the Execution Unit (EXU) in the BCU.
- **Execution Unit (EXU)**

The EXU controls such functions as address calculations, arithmetic and logic calculations, and data transfer using a microprogram (i.e., firmware which controls a micro-sequencer based on the decoded results of the operation code). The EXU contains 512 bytes of internal RAM (with respect to the resistor file area).
- **Interrupt Controller (INTC)**

The Interrupt Controller serves to process hardware interrupt requests from the built-in peripheral hardware and from the outside by means of vector interrupts, resistor / bank switching, or macro service. The Interrupt Controller can also control programmable 4-level interrupt priority order and multiprocessing control corresponding to interrupt factors.
- **DMA Controller (DMAC)**

The DMAC is a general purpose DMA Controller which can handle 16 MB of memory area linearly. In addition to a memory-memory transfer mode, the operation modes include intelligent DMA mode (i.e., a ring buffer system and counter control system), a next address specification mode, and a 2-channel operation mode.
- **UART / Clocked Serial Interface (UART / CSI)**

The CPU supports an asynchronous serial interface (UART) which achieves data synchronization with start and stop bits, as well as a clock-synchronized type serial interface (CSI). These interfaces can be selected. The Clocked Serial Interface can be further selected to operate in the serial bus interface mode (SBI) and the 3-line type serial I/O mode.
- **Parallel Interface Unit (PIU)**

This unit performs input and output in 8-bit units with strobe signal synchronization and supports the Centronics Interface and general purpose parallel data communications functions.
- **A/D Converter Unit (8-bit A/D)**

This is an 8-bit A/D Converter of the sequential conversion type with four analog inputs. The Converter is equipped with four A/D conversion result resistors.
- **Timer / Counter Unit (TCU)**

The Timer / Counter Unit has a built-in 16-bit Timer / Counter and can be used as an Interval Timer, a Free-Running Counter, or an Event Counter.
- **PWM (Pulse Width Modulation) Unit (PWM)**

This unit is equipped with a PWM (Pulse Width Modulation) signal output function having 8-bit accuracy.
- **Watchdog Timer (WDT)**

The CPU has a built-in 8-bit Watchdog Timer for detecting program run-away, system irregularities, and other faults. There is a $\overline{\text{WDTOUT}}$ pin for external notification of the issuance of the Watchdog Timer interrupt.
- **Ports (PORT)**

The CPU is equipped with 53 Port Pins and selection of the function of the Port Pins and the Control Pins is permitted.

- Real Time Output Port (RTO)

This is a Real Time Output Port which uses the interrupt from timer zero (0) as a trigger. The contents of the 8-bit buffer resistor can be output in 4-bit units or 8-bit units with a programmable interval.

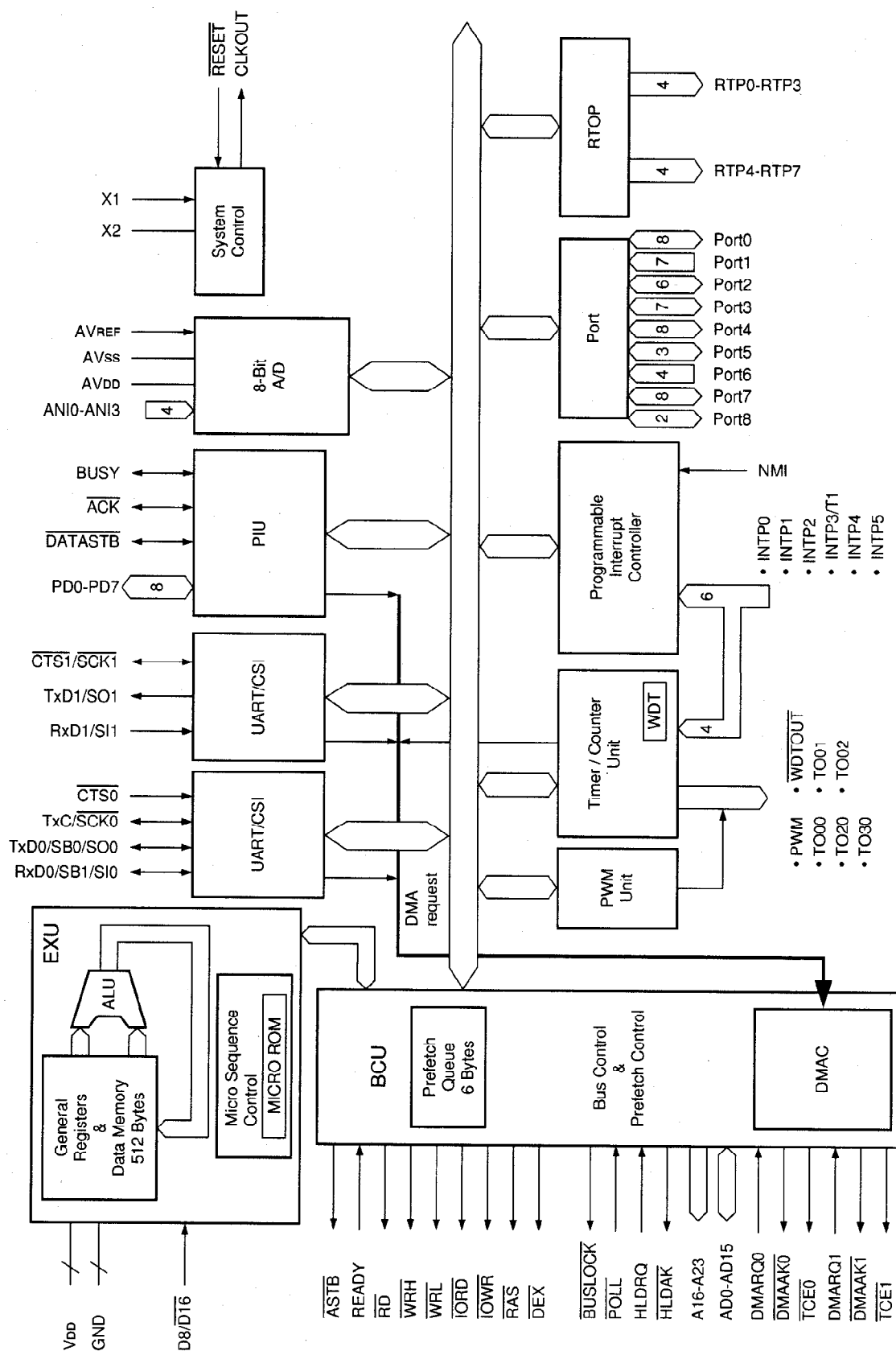
- Clock Generator (CG)

The Clock Generator produces a Clock Frequency of 1/2, 1/4, 1/8 and 1/16 of the number of natural oscillations of the Crystal Oscillator / Ceramic Oscillator which is connected to the X1 and X2 pins, and supplies the frequency as the CPU operation clock.

- Software Interval Timer (SIT)

The CPU contains a software interval timer for use as a software timer function or a clock function timer. The interval interrupt can be set by selection of the Input Clock (i.e., the Count Clock) and the setting of the software timer counter comparison resistor.

CPU Block Diagram



Pin Alignment and Functions (1/2)

No.	Name	Type	Connection	Description
2	BUSLOCK	O	N.C.	Bus Lock
3	HLDACK	O	N.C.	Hold Acknowledge
4	HLDREQ	I	GND	Hold Request
5	READY	I	5V	Ready
6	POLL	I	5V	Poll
7	CLKOUT	O	ISA5	Clock Output 12MHz
8	RESET	I	ISA5	Reset
9	WDTOUT	O	N.C.	Watch Dog Timer Output
11	X1	I	ISA5	Crystal (24MHz)
12	X2		N.C.	
14	RFREQ	O	ISA5	DRAM Refresh Request
58	AVSS		GND	GND (A/D Converter)
63	AVREF		5V	Reference (A/D Converter)
64	AVDD		5V	5V (A/D Converter)
77, 78	DMAACK0, 1	O	ISA5	DMA Acknowledge 0, 1
79, 80	TCE0, 1	O	N.C.	DMA Terminal Count Enable 0, 1
84 ~ 91	AD0 ~ AD7	I/O	ROM, SRAM, DRAM, ISA5, FRIP2, MODEM	Address / Data Bus
92 ~ 99	AD8 ~ AD15	I/O	ISA5	Address / Data Bus
100 ~ 107	A16 ~ A23	O	ISA5	Address Bus
110	D8 / D16	I	5V	Data Bus Select (8 bit / 16 bit)
111	IC (L)	I	Pull Down	
112	ASTB	O	ISA5	Address Strobe
113	WRH	O	N.C.	Data Write High byte
114	WRL	O	ROM, SRAM, DRAM, ISA5, FRIP2, MODEM	Data Write Low byte
115	RD	O		Data Read
116	IOWR	O	ISA5	I / O Write
117	IORD	O	ISA5	I / O Read
118	RAS	O	ISA5	Row Address Strobe (DRAM)
119	DEX	O	N.C.	High byte Enable
15 ~ 22	P00 ~ P07	O		Output Port
24	P10	I	MPSC	Input Port
25	INTP0	I	ISA5	Interrupt from FRIP2 (LINT)
26	INTP1	I	MODEM	Interrupt from MODEM (MDINT)
27	INTP2	I	ISA5	Interrupt from Panel (PINT)
28	INTP3	I	Pull Down	Interrupt
29	INTP4	I	MPSC	Interrupt from MPSC (MPINT)
30	INTP5	I	ISA5	Interrupt from NCU (FINT)
31 ~ 35	P20 ~ P24	O	N.C.	I / O Port
36	TO30	O	ISA5	Timer Output (PCLK 9600Hz)
37 ~ 38	P30 ~ P31	O	N.C.	Output Port
39	P32	O	MPSC	MPSC Reset
40	P33	O	N.C.	Output Port
41	TXD1	O	GPM3	GPM3 Transmit Command
42	RXD1	I	GPM3	GPM3 Receive Command
43	P36	O	GPM3	GPM3 Reset

Pin Alignment and Functions (2/2)

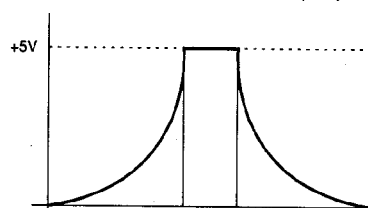
No.	Name	Type	Connection	Description
45 ~ 52	P40 ~ P47	O	N.C.	Output Port
54 ~ 56	P50 ~ P52	O	N.C.	Output Port
59	P60	I	Option Memory	Input Port
60	P61	I	Pull Up or Down	Input Port
61 ~ 62	P62 ~ P63	I	Pull Down	Input Port
66 ~ 70	P70 ~ P74	I	Sensor	Input Port
71	P75	I	LCU	Input Port
72	P76	O	N.C.	Output Port
73	P77	O		Output Port
120	OPEN		N.C.	
13, 23, 56, 65, 82, 109	GND		GND	Ground
1, 10, 44, 57, 74, 81, 108	VDD		5V	Power

3.1.2 FRIP4 (IC9 : MN86074) Facsimile Real Image Processor 4

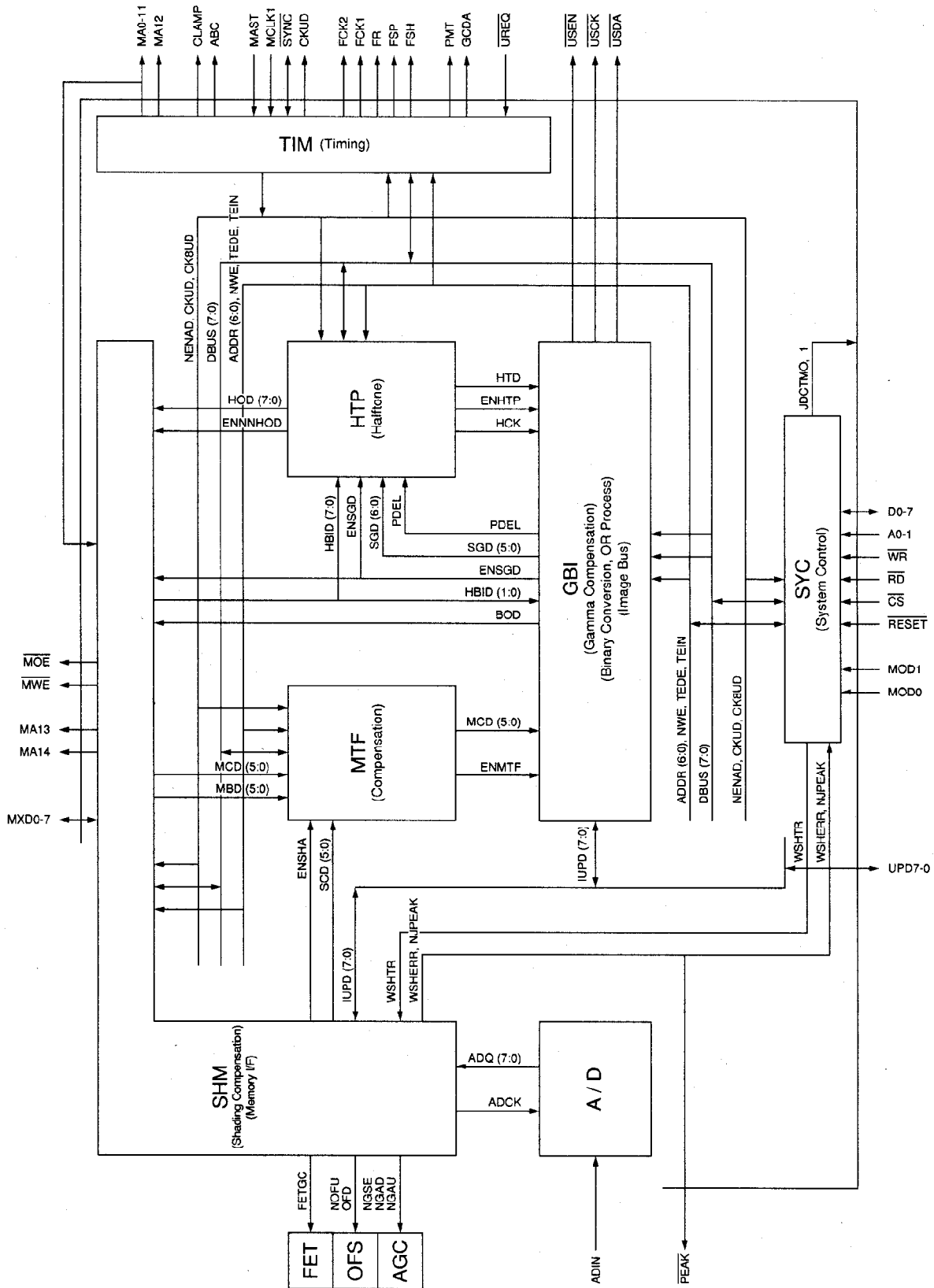
FRIP 4 is supporting :

- 1) Image Processing to keep high quality data
 - White / Black Shading
 - E/D (Error Diffusion : 64 levels)
 - Smoothing (Magnification Reduction Gamma Correction)
 - Resolution
 - 2 dimension MTF Processing
- 2) High Speed Image Process (Image Process Frequency)
2msec / line (A3, 200dpi)
- 3) ANALOG Circuit
OFFSET Adjustment Circuit, Gain Adjustment Circuit, 8 bit A/D Converter
- 4) Drive Clock Generator (CCD, CIS)
- 5) Memory (Shading Memory) Interface
 - (1) A/D (Analog Digital Converter)
This block converts the analog image data to the digital image data by A/D Converter (8 bit).
 - (2) SHM (Shading Adjustment / Memory Interface)
This block stores the white references line into the line memory before reading the actual image, and adjust the actual image as shading adjustment using white reference line.
Furthermore, this block interfaces to S-RAM (64 Kbit → 8 Kbit) which for 4 lines to be stored.
1 line - White reference line, 2 lines - Image data lines, 1 line - Halftone processing line.
 - (3) MTF (Modulate Transfer Function Adjustment)
This block stores 2 lines of image data into line memory and add 1 line (image). MTF emphasize the edge by using the above 3 lines and 2 dimension filter.
 - (4) GBI (Reduction, Gamma Correction, Image Bus Interface)
This block reduces the horizontal scanning line and make the gamma correction. Furthermore, it transfer the binary data for all 8 bits of the data to outside of peripherals as DMA.
 - (5) HTP (Halftone Processor)
This block processes the data as halftone by error diffusion and processes this data to binary data.
 - (6) SYC (System Control)
This block connects between internal system bus and outside system bus.
 - (7) TIM (Timing Generator)
This block inputs SYSTEM CLOCK and provide drive clock into in the FRIP4, synchronized clock and CCD drive clock to the outside.
 - (8) OUTOUT PORT
This block supports 8 output port.

Pin25 (VREFH) Refresh Voltage of AD Converter (5V)



Block Diagram



Pin Alignment and Functions (1/2)

No.	Name	Type	Connection	Description
42, 84	DVDD		5V	5V for Digital Circuit
1, 43	DVSS		GND	GND for Digital Circuit
21	AVDD		5V	5V for Analog Circuit
22	AVSS		GND	GND for Analog Circuit
48 ~ 49	A1 ~ A0	I	ROM, SRAM, DRAM, CPU, ISA5, MODEM	Address Bus
50 ~ 57	D7 ~ D0	I/O	ROM, SRAM, DRAM, CPU, ISA5, MODEM	Data Bus
47	CS	I	ISA5	Chip Select
45	RD	I	CPU	Read
46	WR	I	CPU	Write
32	VPD7	O	LCU / LCE (CMLD)	Output Port
33	VPD6	O	LCU / LCE (TCKD)	Output Port
34	VPD5	O	LCU / LCE (PLSD)	Output Port
35	VPD4	O	LCU / LCE (EAKD)	Output Port
36	VPD3	O	Monitor Circuit	Output Port
37	VPD2	O	N.C.	Output Port
38	VPD1	O	LED Driver	Output Port
39	VPD0	O	Stamp Driver	Output Port
58 ~ 65	MXD7 ~ MXD0	I/O	Shading SRAM	Shading SRAM Data Bus
66	MOE	O	Shading SRAM, ISA5	Shading SRAM Read
67	MWE	O	Shading SRAM	Shading SRAM Write
68 ~ 82	MA14 ~ MA0	O	Shading SRAM	Shading SRAM Address Bus
6	FSH	O	CCD, ISA5	CCD Transfer Gate Clock
3	MCLK1	I	ISA5	FRIP4 Master Clock (4 MHz)
4, 5	FCK2, 1	O	CCD	CCD Shift Resistor Clock
8	FR	O	CCD	CCD RB Pulse
7	FSP	O	ISA5	CCD SHB Pulse
9	PMT	O	ISA5	Synchronized Pulse for Reading
44	RESET	I	CPU	Hardware Reset
24	ADIN	I	Analog Circuit	Analog Video Data
13	GCDA			ABC, AGC Control
14	VINIG			
15	AGDR			
16	AGUR			
17	AGOUT			
18 ~ 20	FETG, S, D			Inside FET Terminal for ABC Drain, Source, Gate
26	OFOUT			Offset Control
27	OFHC			
23	VREFL	I	GND	Reference Voltage of A/D Converter
25	VREFH	I	5V	Reference Voltage of A/D Converter
28	VSDA	O	ISA5	Video Data
29	VSEN	O	ISA5	Video Data Enable
30	VSCK	O	ISA5	Video Data Clock
31	VREQ	I	ISA5	Video Data Request
10	PEAK	O	N.C.	Not Use
11	CLAMP	O	N.C.	Not Use

Pin Alignment and Functions (2/2)

No.	Name	Type	Connection	Description
12	ABC	O	N.C.	Not Use
2	SYNC	O	Pull Up	
40, 41	MOD1, 0	I	GND, 5V	Mode Select
83	MAST	I	5V	Select of Clock Mode

3.1.3 ISA5

(1) View

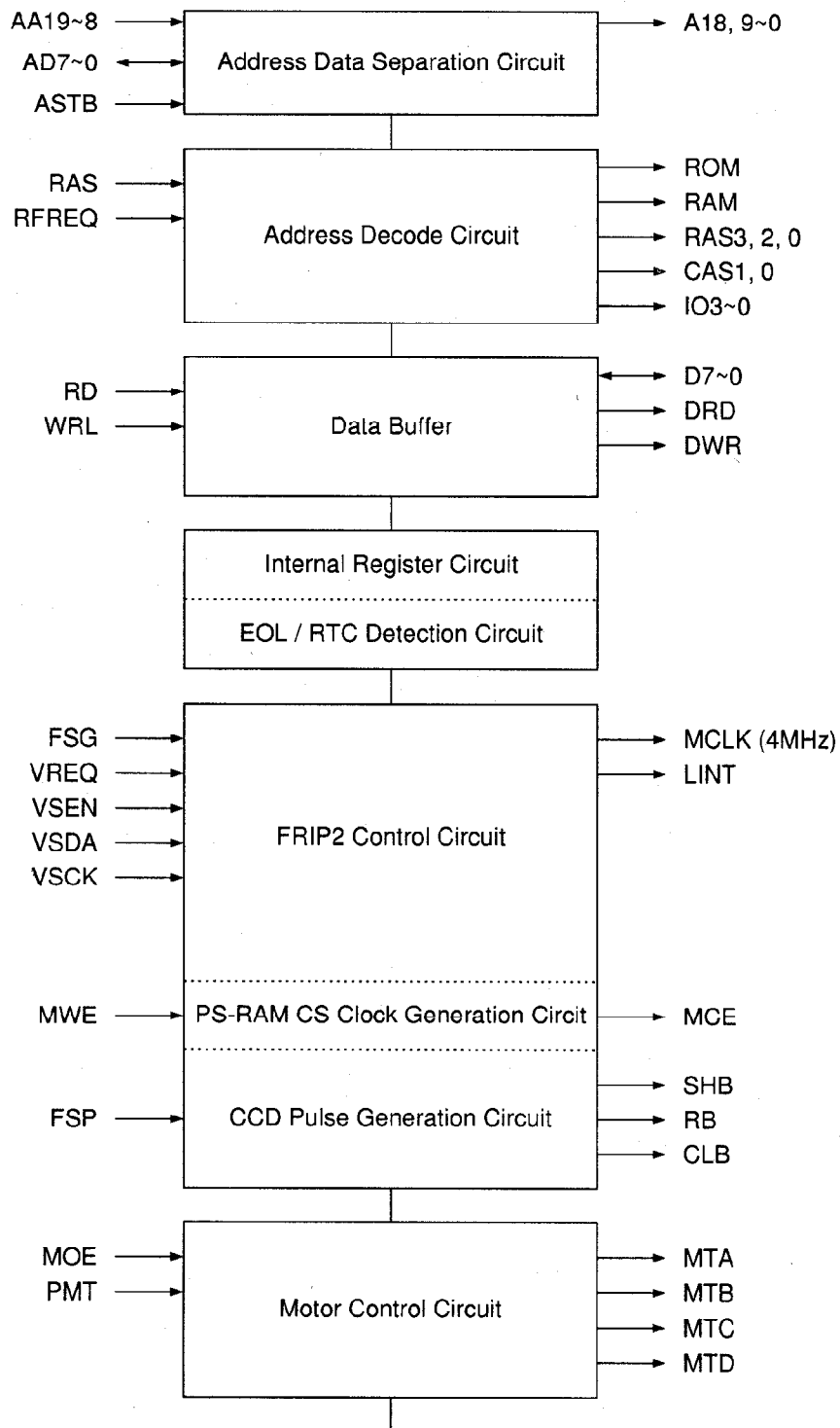
ISA5 (Image Scaling Adapter) has serial Interface to FRIP2 (Video LSI) and also has MOTOR and CCD.
ISA5 also has serial interface control circuit to GPM and panel CPU.

As additional function, ISA5 has RTC Detection Circuit and Frequency detecting circuit.

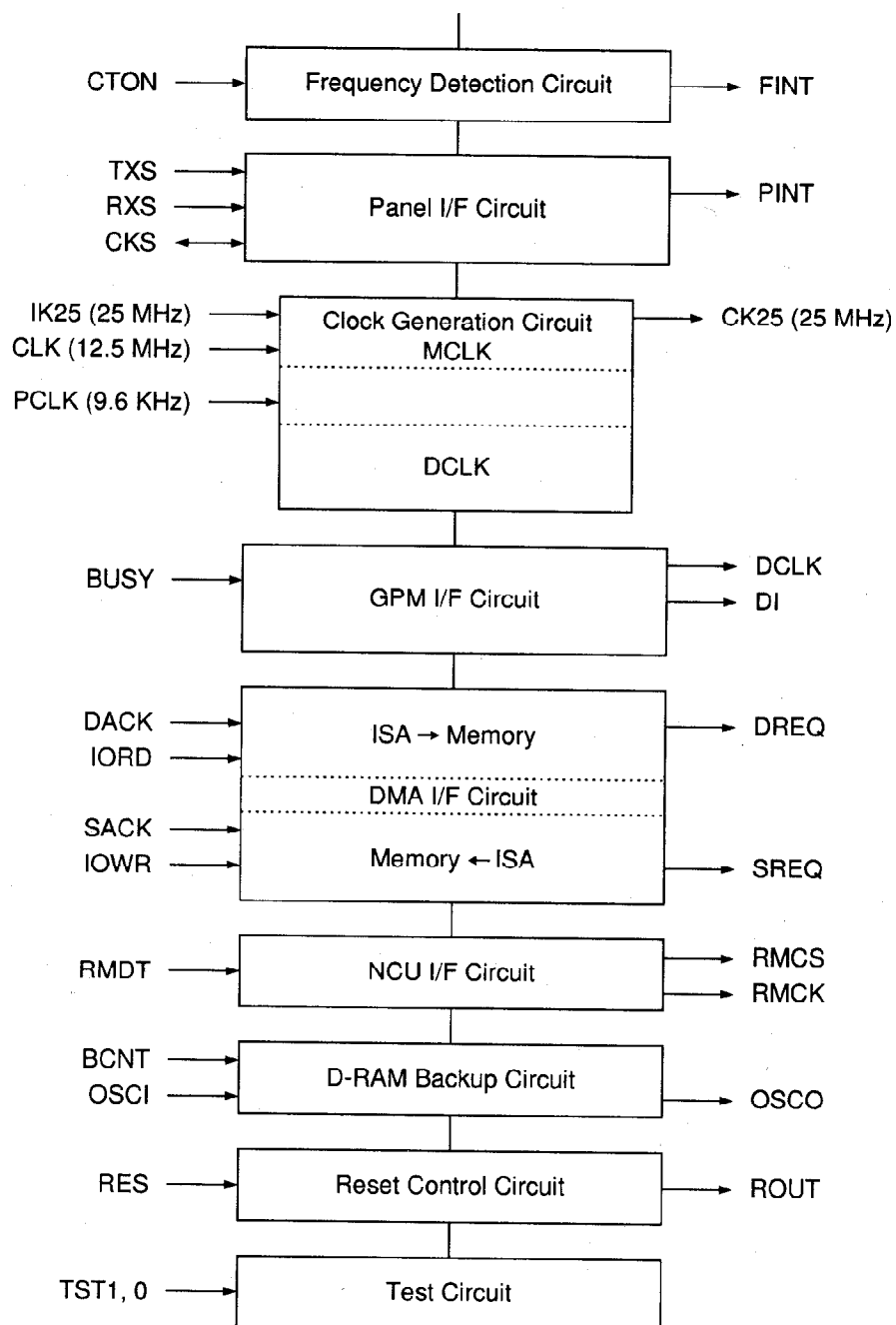
(2) Function

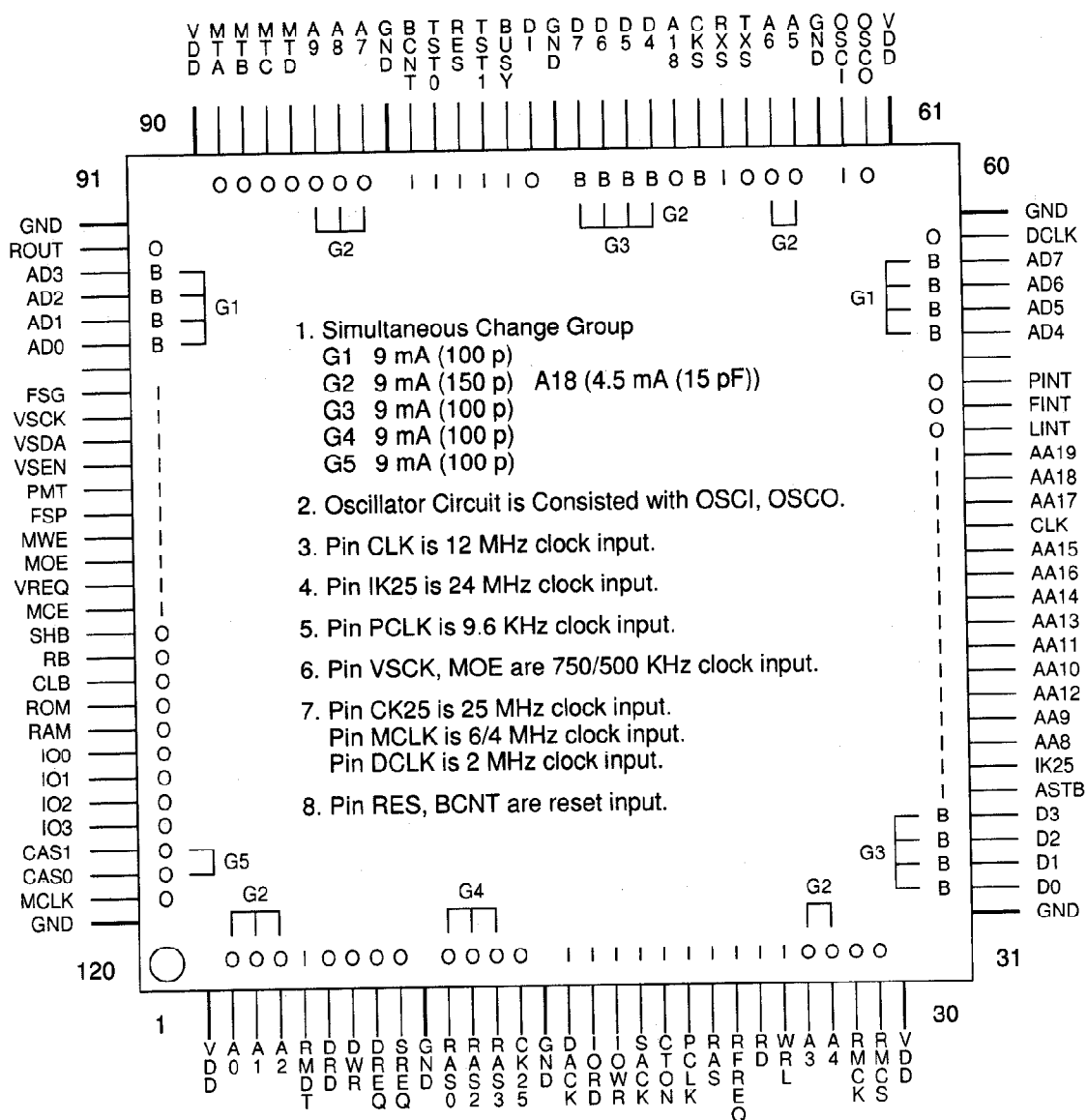
- FRIP4 (Video LSI) Serial Interface
- CCD Drive Control
- Motor Pulse Generator (Control)
- CPU Interface
- CS (ROM, S-RAM, D-RAM, I/O)
- D-RAM Control (Address, Refresh / Backup)
- GPM Interface
- Panel Interface
- RTC Detection Circuit
- Frequency Detection Circuit (CI)

ISA5 BLOCK (1/2)

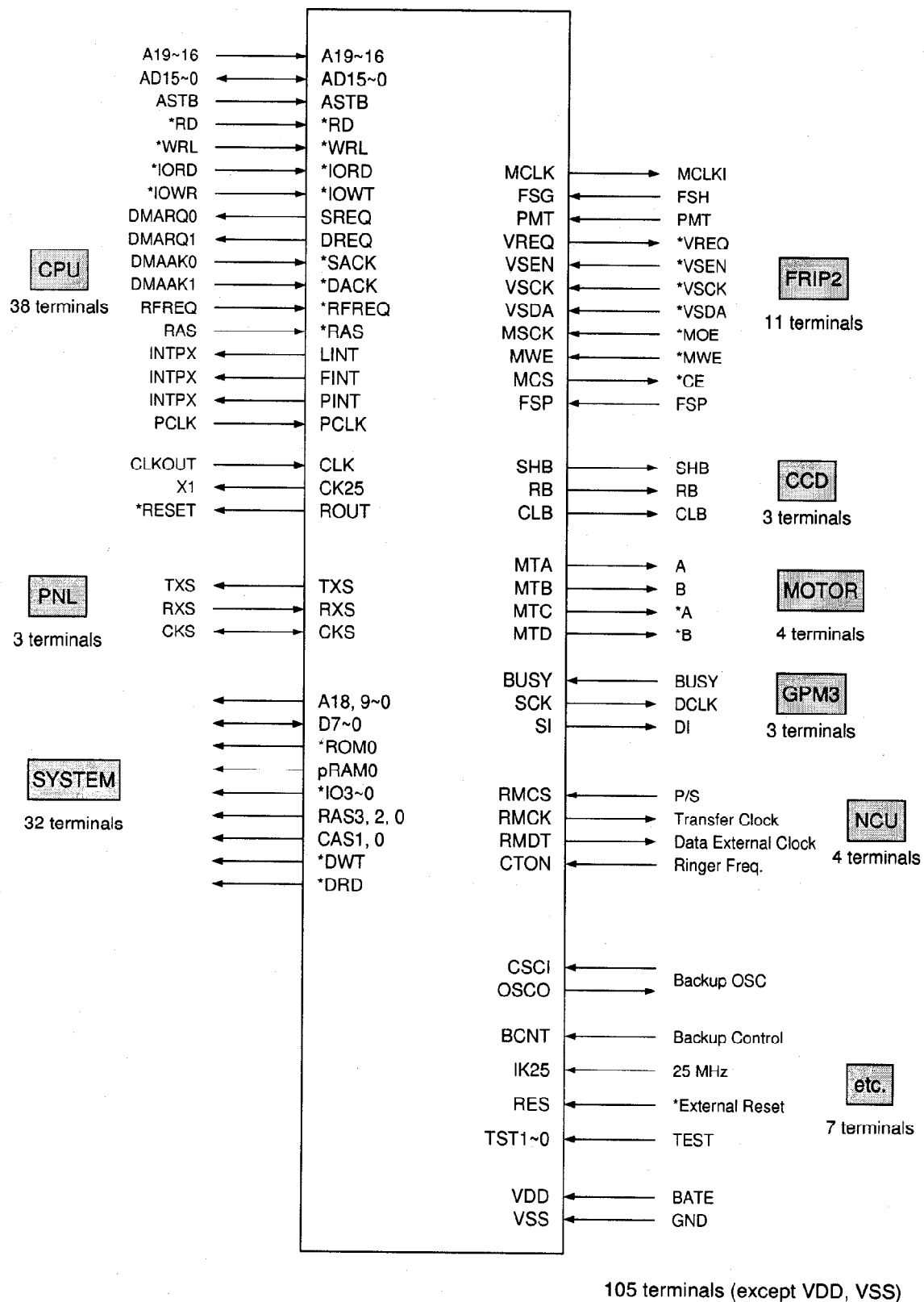


ISA5 BLOCK (2/2)





ISA5 Terminal Map



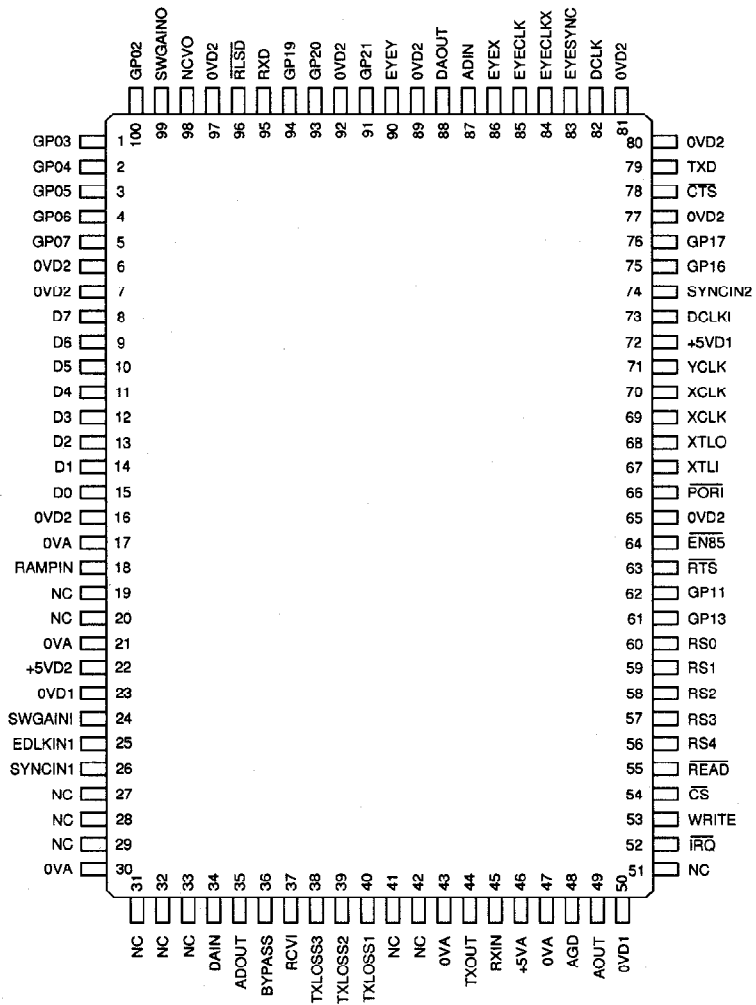
Pin Alignment and Functions (1/2)

No.	Name	Type	Connection	Description
48 ~ 50	AA17 ~ AA19	I	CPU	Address Bus
38 ~ 46	AA8 ~ AA15	I		
93 ~ 96	AD3 ~ AD0	I/O		Address / Data Bus
55 ~ 58	AD4 ~ AD7	I/O		
36	ASTB	I		Address Strobe
22	RAS	I		Row Address Strobe (DRAM)
23	RFREQ	I		DRAM Refresh Request
24	RD	I		Data Read
25	WRL	I		Data Write Low byte
16	DACK	I		Scanner DMA Acknowledge
17	IORD	I		I/O Read
8	DREQ	O		Scanner DMA Request
19	SACK	I		Printer DMA Acknowledge
18	IOWR	I		I/O write
9	SREQ	O		Printer DMA Request
21	PCLK	I		Panel Clock (9600 Hz)
51	LINT	O		Interrupt from FRIP2
52	FINT	O		Interrupt from LCU / LCE
53	PINT	O		Interrupt from MODEM
14	CK25	O		CPU Master Clock (24 MHz)
92	ROUT	O		CPU Reset
47	CLK	I		CPU Clock (12 MHz)
108	SHB	O	CCD	Sample Hold Clock
109	RB	O		Reset Gate Clock
110	CLB	O		Reset Feedthrough Level Clamp Clock
107	MCE	O	Shading SRAM	PS-RAM Refresh Clock
89	MTA	O	Motor Driver	Stepping Motor Pulse A
88	MTB	O		Stepping Motor Pulse B
87	MTC	O		Stepping Motor Pulse C
86	MTD	O		Stepping Motor Pulse D
70	A18	O	ROM	Address Bus
2 ~ 4	A0 ~ A2		ROM, SRAM, DRAM, FRIP4, MODEM	
26 ~ 27	A3 ~ A4			
65 ~ 66	A5 ~ A6			
83 ~ 85	A7 ~ A9			
32 ~ 35	D0 ~ D4	I/O	DRAM	Data Bus
71 ~ 74	D5 ~ D7			
111	ROM	O	ROM	Chip Select
112	RAM	O	SRAM	
113	IO0	O	FRIP4	
114	IO1	O	MODEM	
115	IO2	O	MPSC	
116	IO3	O	N.C.	
11	RAS0	O	DRAM	Row Address Strobe 0
12 ~ 13	RAS2 ~ RAS3	O	Option Memory	Row Address Strobe 2, 3

Pin Alignment and Functions (2/2)

No.	Name	Type	Connection	Description
117 ~ 118	CAS1 ~ CAS0	O	DRAM	Column Address Strobe 1, 0
6	DRD	O		DRAM Read
7	DRW	O		DRAM Write
98	FSG	I	FRIP4	CCD Transfer Gate Clock
106	VREQ	O		Video Data Request
101	VSEN	I		Video Data Enable
100	VSDA	I		Video Data
99	VSCK	I		Video Data Clock
119	MCLK	O		FRIP4 Master Clock (4 MHz)
104	MWE	I		Shading SRAM Write
105	MOE	I		Shading SRAM Read
102	PMT	I		Synchronized Pulse for Reading
103	FSP	I		CCD Reset Pulse
67	TXS	O	Panel	Panel Transmit Data
68	RXS	I		Panel Response Data
69	CKS	I/O		Panel Serial Clock
20	CTON	I	LCU / LCE	Ringer Frequency
5	RMDT	I		LCE Serial Data
29	RMCS	O		LCE Serial / Parallel Select
28	RMCK	O		LCE Serial Clock
77	BUSY	I	GPM3	GPM3 Busy
76	DI	O		GPM3 Data
59	DCLK	O		GPM3 Data Clock (2 MHz)
81	BCNT	I	Pull Up or Down	Backup Control
63	OSC1	I	Ceramic Oscillator	DRAM Backup Clock (2.8 MHz)
62	OSC0	O		
37	IK25	I		System Clock (24 MHz)
79	RES	I	Reset IC	System Reset
1, 30, 61, 90	VDD		5V	Power
10, 15, 31, 60, 64, 75, 82, 91, 120	GND		GND	Ground
78, 80	TST1, 0	I	GND	TEST
54, 97	NC		N.C.	

3.1.4 R96DFXL



Pin Signals 100-Pin PQRF

Pin No.	Signal Name	I/O Type	Pin No.	Signal Name	I/O Type
1 ~ 5	GP03 ~ GP07	IA/OB	66	0VD2	GND
6, 7	0VD2	GND	67	$\overline{\text{PORI}}$	ID
8 ~ 15	D7 ~ D0	IA/OB	68	XTLI	R
16	0VD2	GND	69	XTLO	R
17	0VA	GND	70	XCLK	OD
18	RAMPIN	R	71	YCLK	OD
19, 20	NC		72	+5VD1	PWR
21	0VA	GND	73	DCLK1	R
22	+5VD2	PWR	74	SYNCIN2	R
23	0VD1	GND	75 ~ 76	GP16 ~ GP17	IA
24	SWGAINI	R	77	0VD2	GND
25	$\overline{\text{ECLKIN1}}$	R	78	$\overline{\text{CTS}}$	OA
26	SYNCIN1	R	79	TXD	IA
27 ~ 29	NC		80, 81	0VD2	GND
30	0VA	GND	82	DCLK	OA
31 ~ 33	NC		83	EYESYNC	OA
34	DAIN	R	84	EYECLKX	OA
35	ADOUT	R	85	EYECLK	OA
36	BYPASS	IC	86	EYEX	OA
37	RCVI	R	87	ADIN	R
38	TXLOSS3 ~ TALOSS1	IC	88	DAOUT	R
41, 42	NC		89	0VD2	GND
43	0VA	GND	90	EYEX	OA
44	TXOUT	AA	91	GP21	IA
45	RXIN	AB	92	0VD2	GND
46	+5VA	PWR	93 ~ 94	GP20 ~ GP19	IA
47	0VA	GND	95	RDX	OA
48	AGD	R	96	$\overline{\text{RLSD}}$	OA
49	AOUT	R	97	0VD2	GND
50	0VD1	GND	98	RCVO	R
51	NC		99	SWGAINI	R
52	$\overline{\text{IRQ}}$	OC	100	GP02	IA/OB
53	$\overline{\text{WRITE-R/W}}$	IA	Notes : 1. NC = No connection, leave pin disconnected (open). 2. R = Required overhead connection; No connection to host equipment 3. NC = No Internal connection; can be connected to +5VD1 for compatibility with the R144EFXL.		
54	$\overline{\text{CS}}$	IA			
55	$\overline{\text{READ-}\phi 2}$	IA			
56 ~ 60	RS4 ~ RS0	IA			
61	GP13	IA/OB			
62	NC	Note4			
63	GP11	IA/OB			
64	$\overline{\text{RTS}}$	IA			
65	$\overline{\text{EN85}}$	R			

Modem Hardware interface signals (1/2)

Name	Type	Description
Overhead Signals		
XTLI	R	Connect to Crystal / Oscillator
XTLO	R	Connect to Crystal / Oscillator
POR $\overline{\text{I}}$	ID	Power-On-Reset Input
+5VD1	PWR	Connect to Digital +5V Power
+5VD2	PWR	Connect to Digital +5V Power
+5VA	PWR	Connect to Analog +5V Power
0VD1	GND	Connect to Digital Ground
0VD2	GND	Connect to Digital Ground
0VA	GND	Connect to Analog 0V Ground
AGD	R	+2.5V Analog Ground
Microprocessor Bus Interface		
D7	IA/OB	Data Bus Line 7
D6	IA/OB	Data Bus Line 6
D5	IA/OB	Data Bus Line 5
D4	IA/OB	Data Bus Line 4
D3	IA/OB	Data Bus Line 3
D2	IA/OB	Data Bus Line 2
D1	IA/OB	Data Bus Line 1
D0	IA/OB	Data Bus Line 0
RS4	IA	Resistor Select 4
RS3	IA	Resistor Select 3
RS2	IA	Resistor Select 2
RS1	IA	Resistor Select 1
RS0	IA	Resistor Select 0
$\overline{\text{CS}}$	IA	Chip Select
READ- ϕ 2	IA	Read Enable (808X), ϕ 2 Clock (65XX)
WRITE-R $\overline{\text{W}}$	IA	Write Enable (808X), R/W (65XX)
$\overline{\text{IRQ}}$	OC	Interrupt Request
V.24 Serial Interface		
TXD	IA	Transmit Data
RXD	OA	Received Data
$\overline{\text{RTS}}$	IA	Request to Send
$\overline{\text{CTS}}$	OA	Clear to Send
$\overline{\text{RLSD}}$	OA	Received Line Signal Detected
DCLK	OA	Transmit and Receive Data Clock

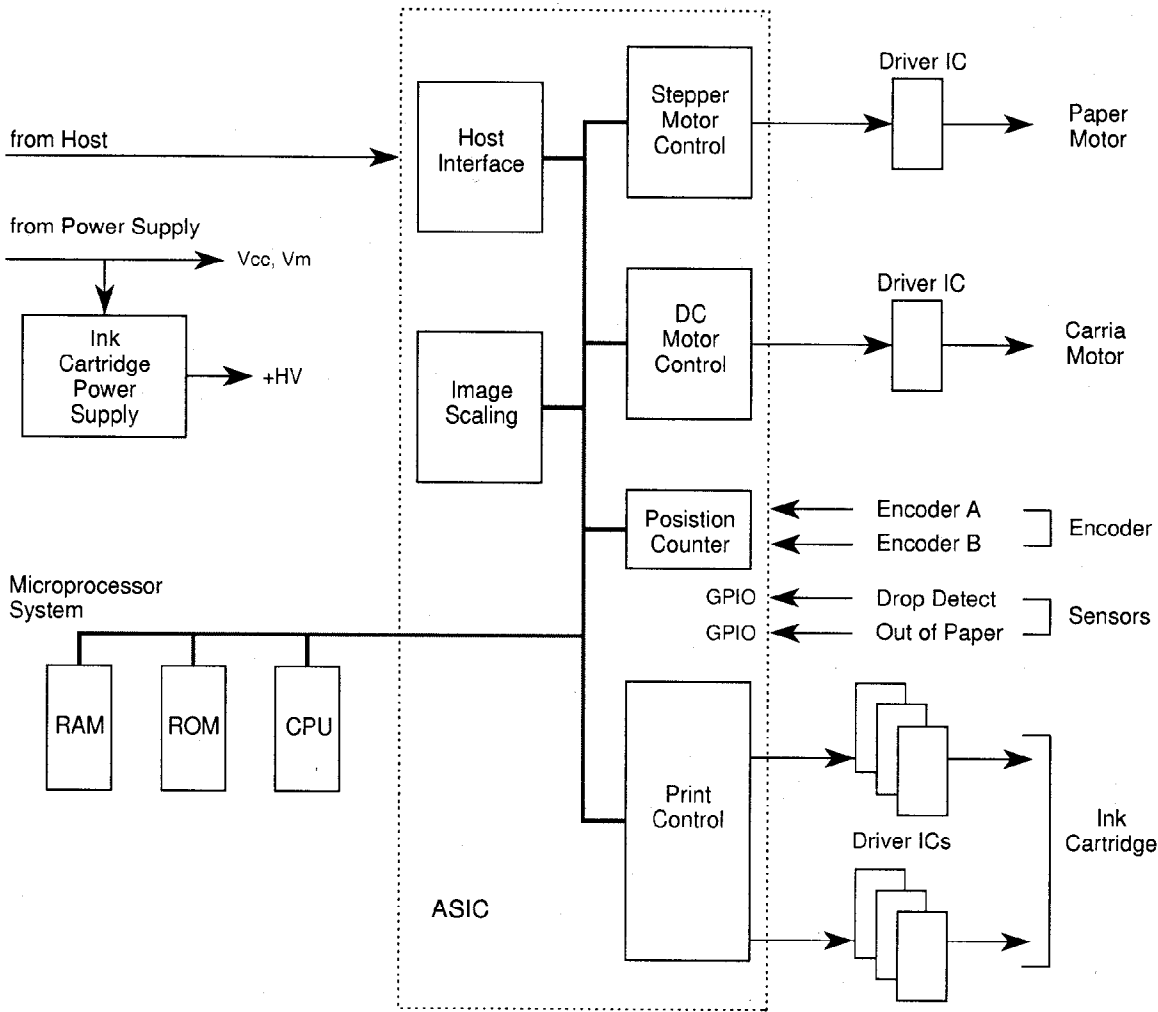
Modem Hardware interface signals (2/2)

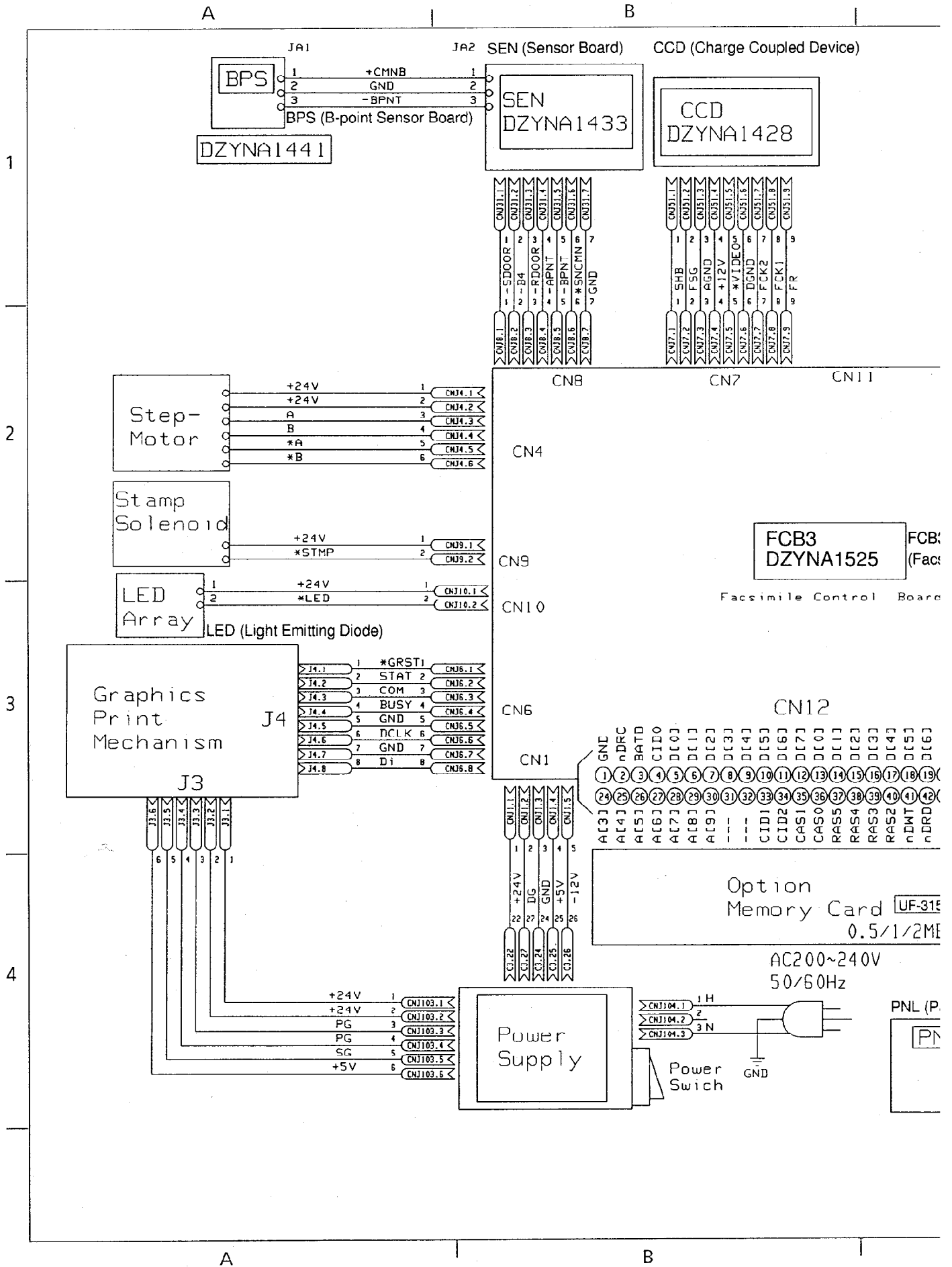
Name	Type	Description
Auxiliary Signals		
BYPASS	IC	Receiver Highpass Filter Bypass Enable
TXLOSS1	IC	2 dB of Analog Transmit Level Attenuation
TXLOSS2	IC	4 dB of Analog Transmit Level Attenuation
TXLOSS3	IC	5 dB of Analog Transmit Level Attenuation
XCLK	OD	12 MHz Output
YCLK	OD	6 MHz Output
EN85	IA	Enable 8085 Bus
GP2 ~ GP7	IA/OB	General Purpose Input / Output ³
GP11, GP13, GP16, GP17, GP18 ~ GP21	IA	General Purpose Input ³
Analog Signals		
TXOUT	AA	Connect to Smoothing Filter Input
RXIN	AB	Connect to Anti-aliasing Filter Output
Eye Diagnosis Interface		
EYEX	OA	Serial Eye Pattern X Output
EYEX	OA	Serial Eye Pattern Y Output
EYECLK	OA	Serial Eye Pattern Clock (576 kHz)
EYECLKX	OA	Serial Eye Pattern Clock (144 kHz)
EYESYNC	OA	Serial Eye Pattern Strobe (9600 Hz)
Modem Interconnect		
DCLK1	R	Connect to DCLK
ECLKIN1	R	Connect to EYECLK
SYNCIN1	R	Connect to EYESYNC
SYNCIN2	R	Connect to EYESYNC
RCVI	R	Connect to RCVO
RCVO	R	Mode Select Output
ADIN	R	Connect to ADOUT
ADOUT	R	ADC Output
DAIN	R	Connect to DAOUT
DAOUT	R	DAC / AGC Output
SWGAINI	R	Connect to SWGAINO
SWGAINO	R	Connect to SWGAINI
RAMPIN	R	Receiver Amplifier Input
AOUT	R	Smoothing Filter Output
Notes :		
1.	R = Required overhead connection; no connection to host equipment.	
2.	100-pin PQFP only.	

3.1.5 ASIC (GPM3)

The information in this section appears in a sequence relative to the system diagram in the following figure.

System Block Diagram

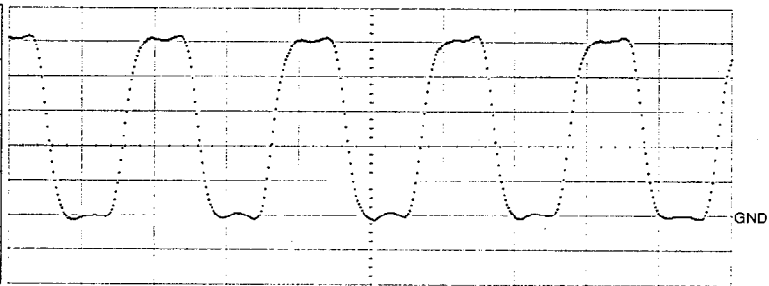




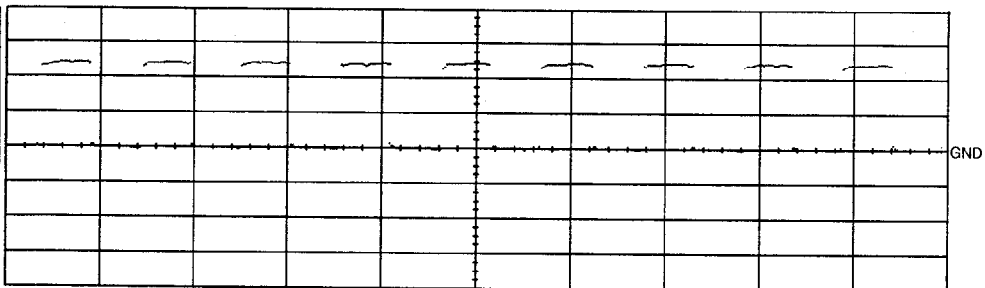


General Circuit Diagram
<for Standard Model : FCB3>

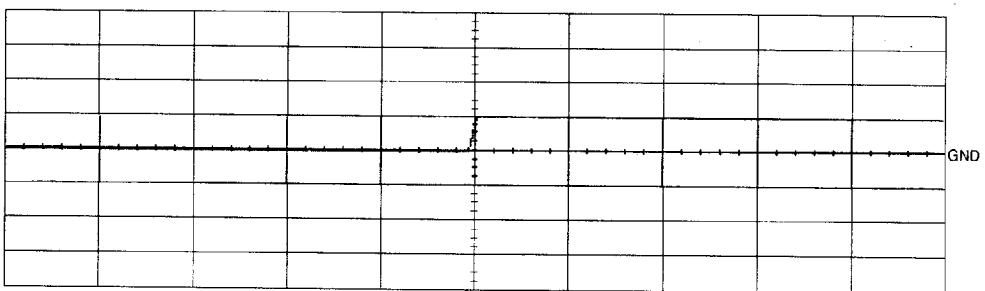
Single	①X1
Check Point	IC19 Pin11
Mode	Stand by
Horizontal	20ns/div
Vertical	1.0V/div



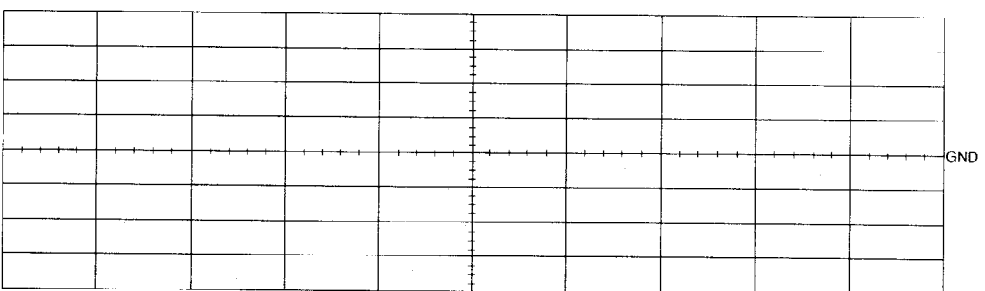
Single	③PCLK
Check Point	IC19 Pin36
Mode	Stand by
Horizontal	50ns/div
Vertical	2.0V/div



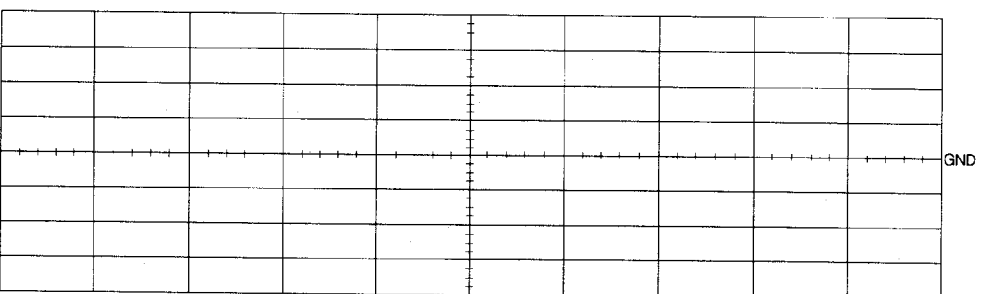
Single	⑤VCC
Check Point	IC8 Pin1
Mode	Power On
Horizontal	50ms/div
Vertical	5.0V/div



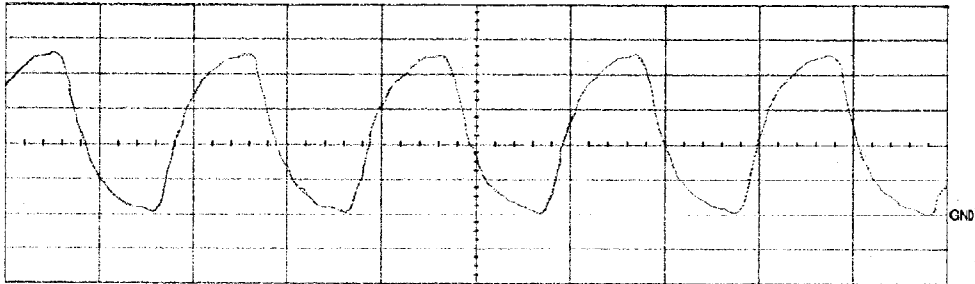
Single	
Check Point	
Mode	
Horizontal	
Vertical	



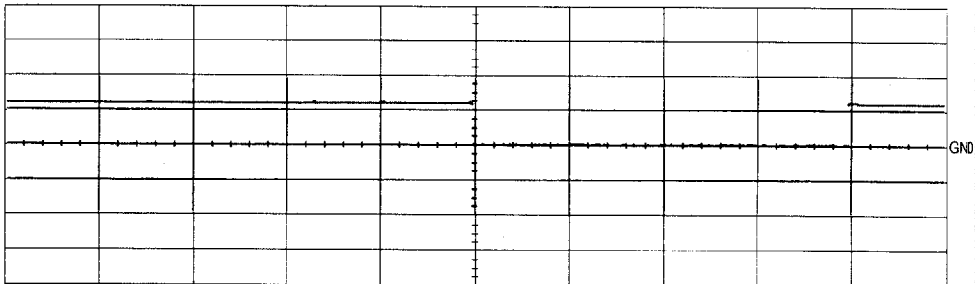
Single	
Check Point	
Mode	
Horizontal	
Vertical	



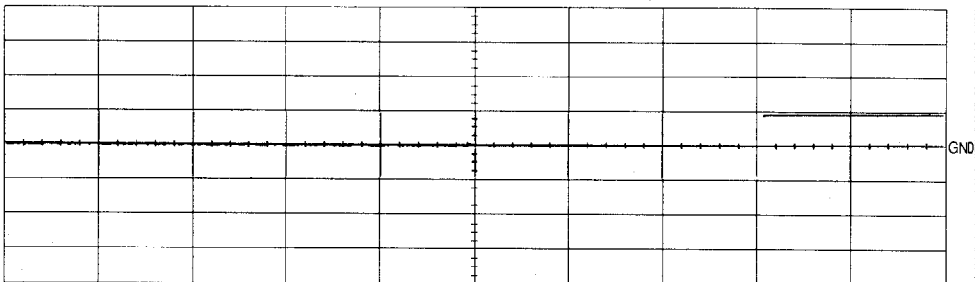
Single	②CLKOUT
Check Point	IC19 Pin7
Mode	Stand by
Horizontal	20ns/div
Vertical	1.0V/div



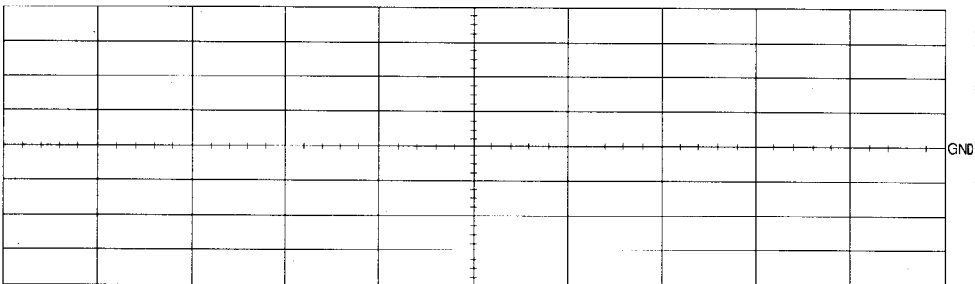
Single	④pSTAMP
Check Point	CN9 Pin2
Mode	TX
Horizontal	50ms/div
Vertical	20V/div



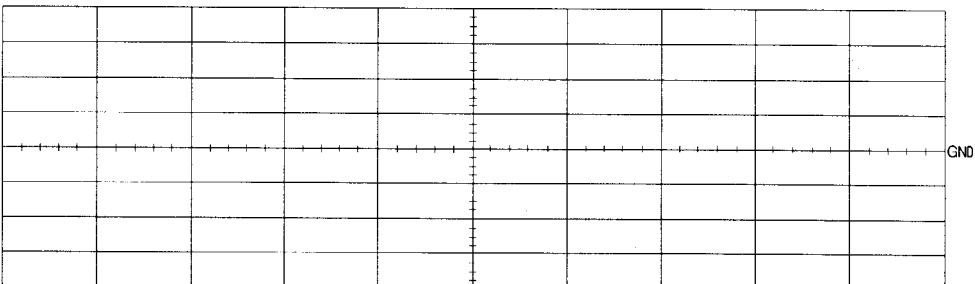
Single	⑥nRESET
Check Point	IC8 Pin7
Mode	Power On
Horizontal	50ms/div
Vertical	5.0V/div

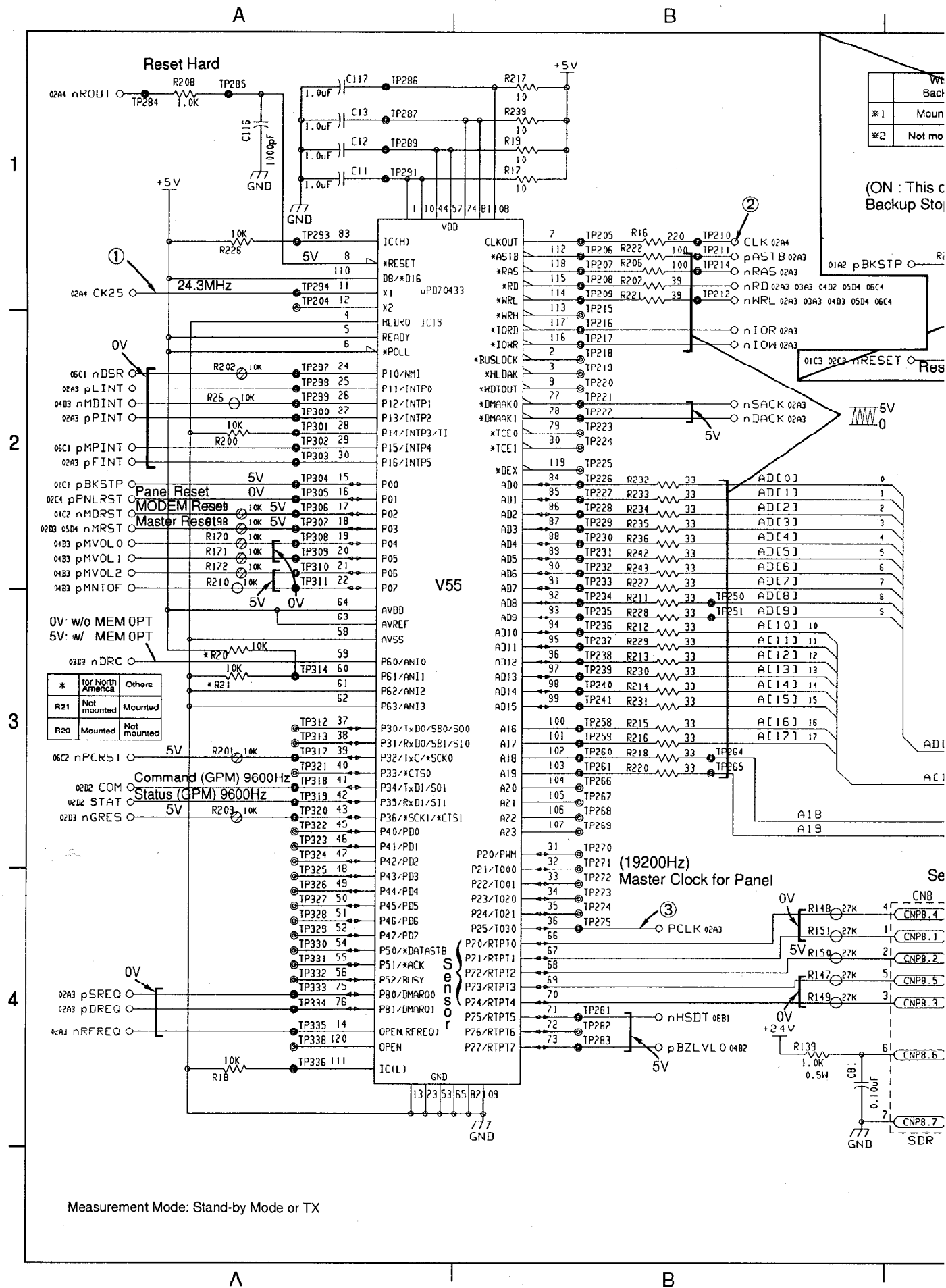


Single	
Check Point	
Mode	
Horizontal	
Vertical	



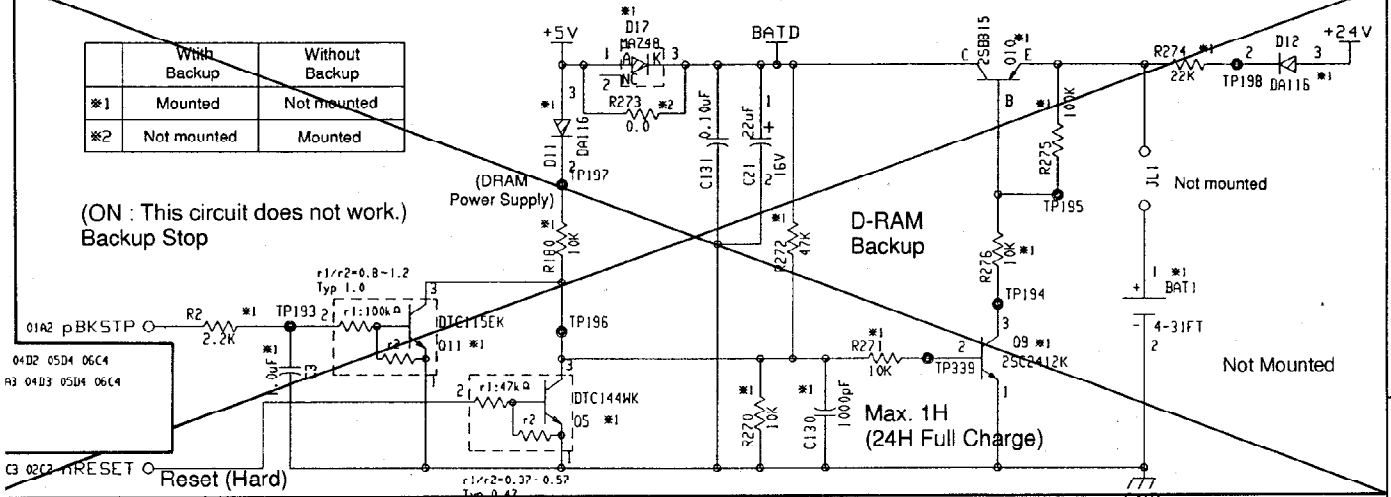
Single	
Check Point	
Mode	
Horizontal	
Vertical	



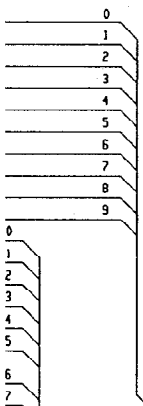


	With Backup	Without Backup
*1	Mounted	Not mounted
*2	Not mounted	Mounted

(ON : This circuit does not work.)
Backup Stop



5V
0

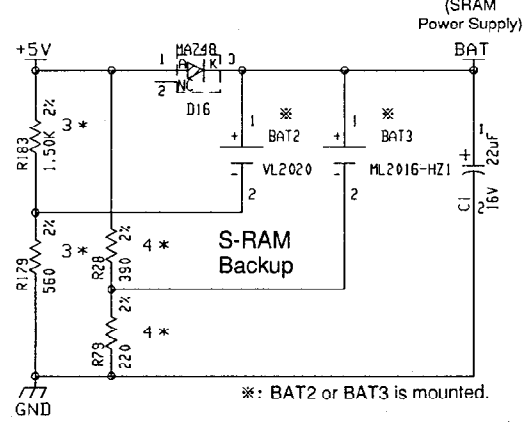
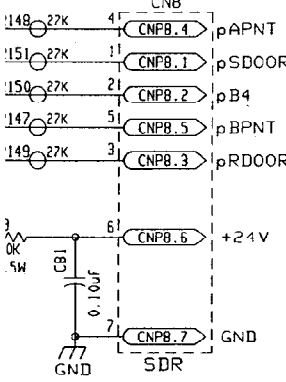


8
9

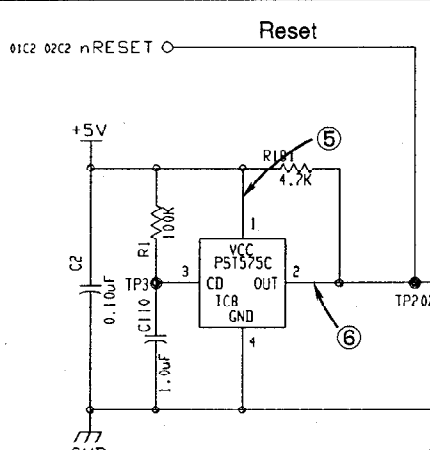
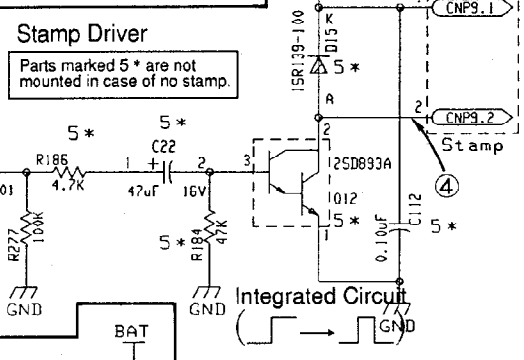
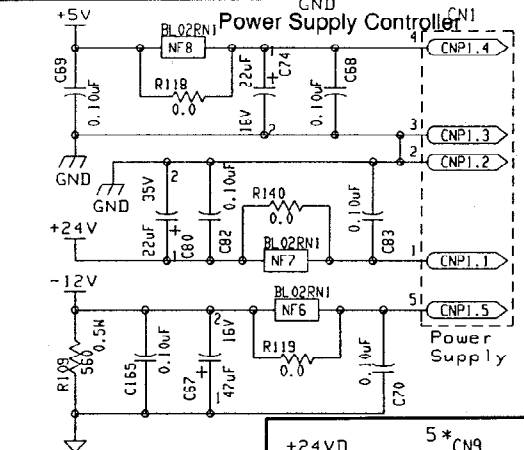
AD Bus
AD19: 01

A Bus
A18 02A1
A19 02A1

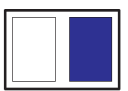
Sensor I/F

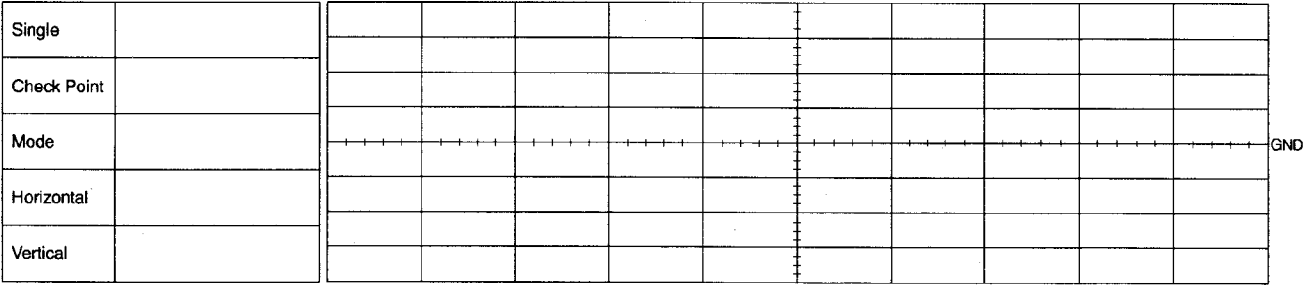
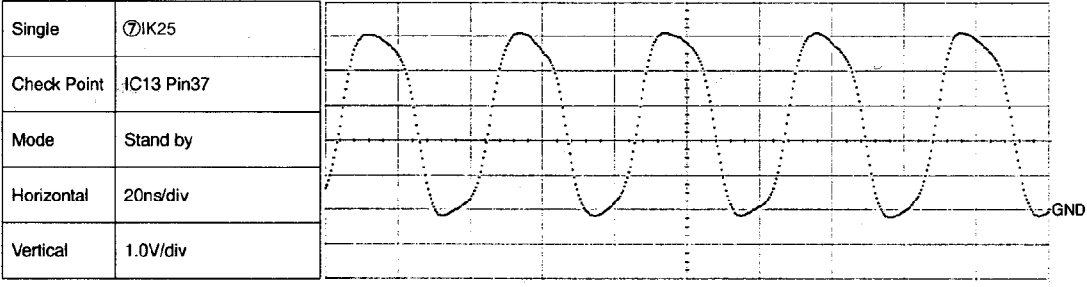
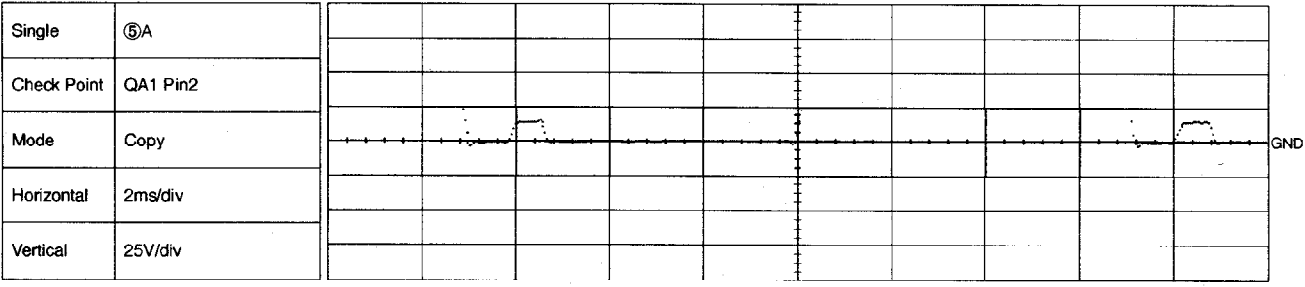
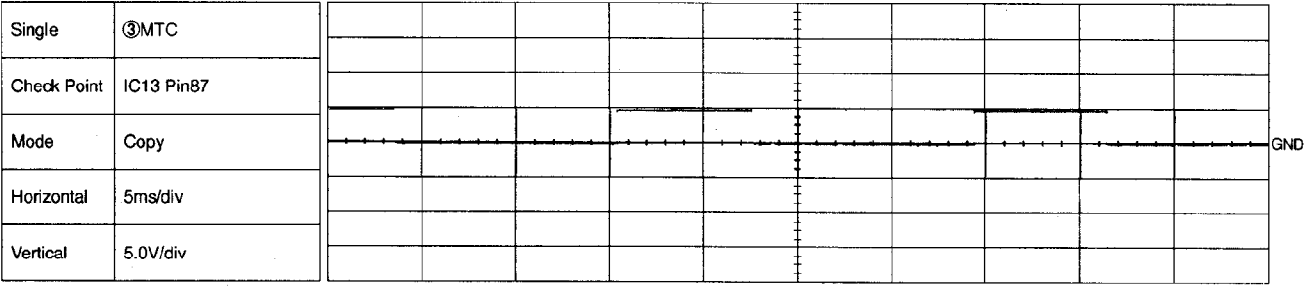
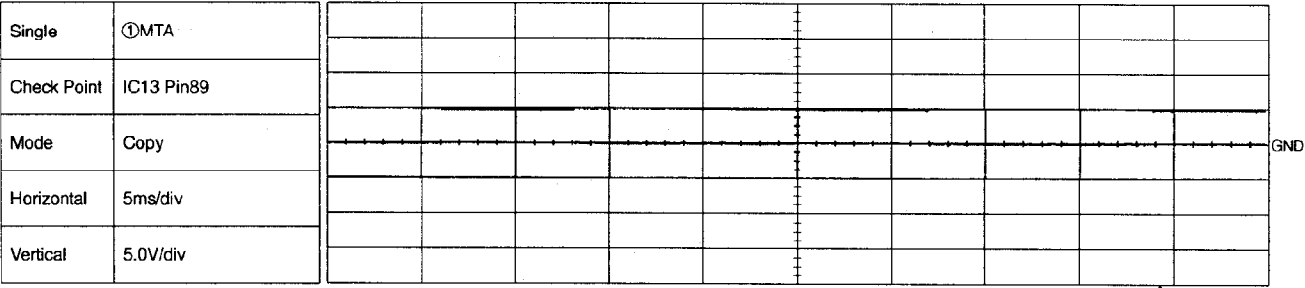


	BAT2	BAT3
3 *	Mounted	Not mounted
4 *	Not mounted	Mounted

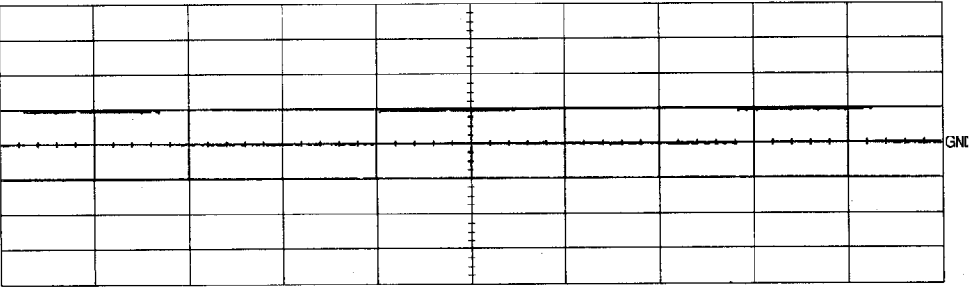


Model	Drawing Name
UF-305 UF-315 PX-305	FCB3 PC Board 1 <DZYNA1525>

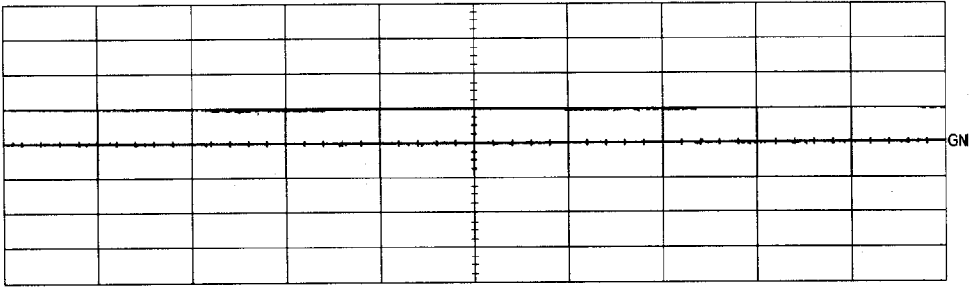




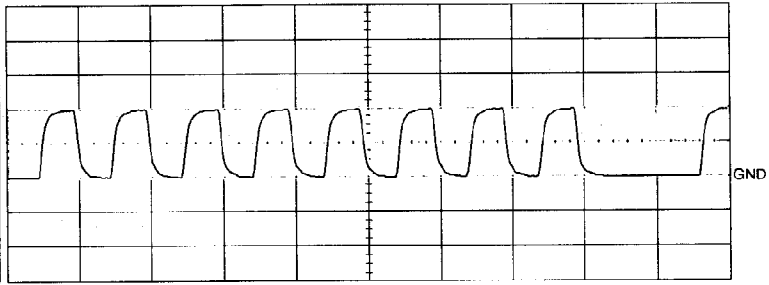
Single	②MTB
Check Point	IC13 Pin88
Mode	Copy
Horizontal	5ms/div
Vertical	5.0V/div



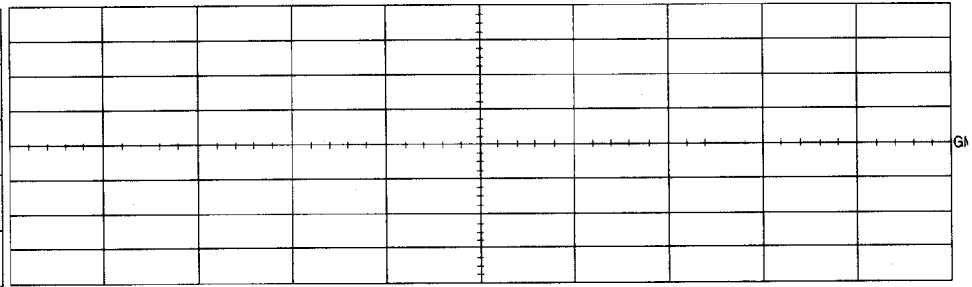
Single	④MTD
Check Point	IC13 Pin86
Mode	Copy
Horizontal	5ms/div
Vertical	5.0V/div



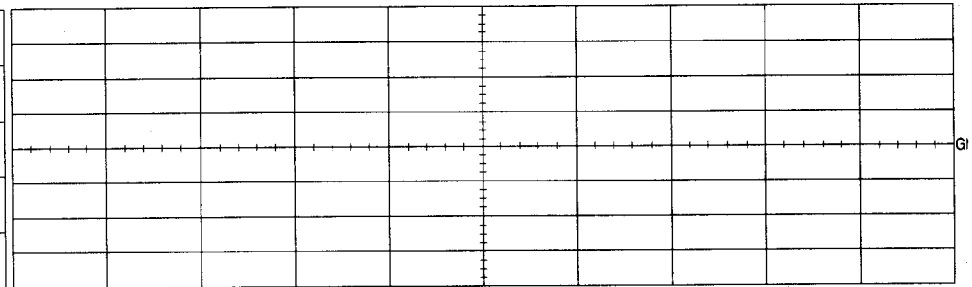
Single	⑥DCLK
Check Point	IC13 Pin59
Mode	Copy
Horizontal	500ns/div
Vertical	2.5V/div

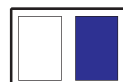
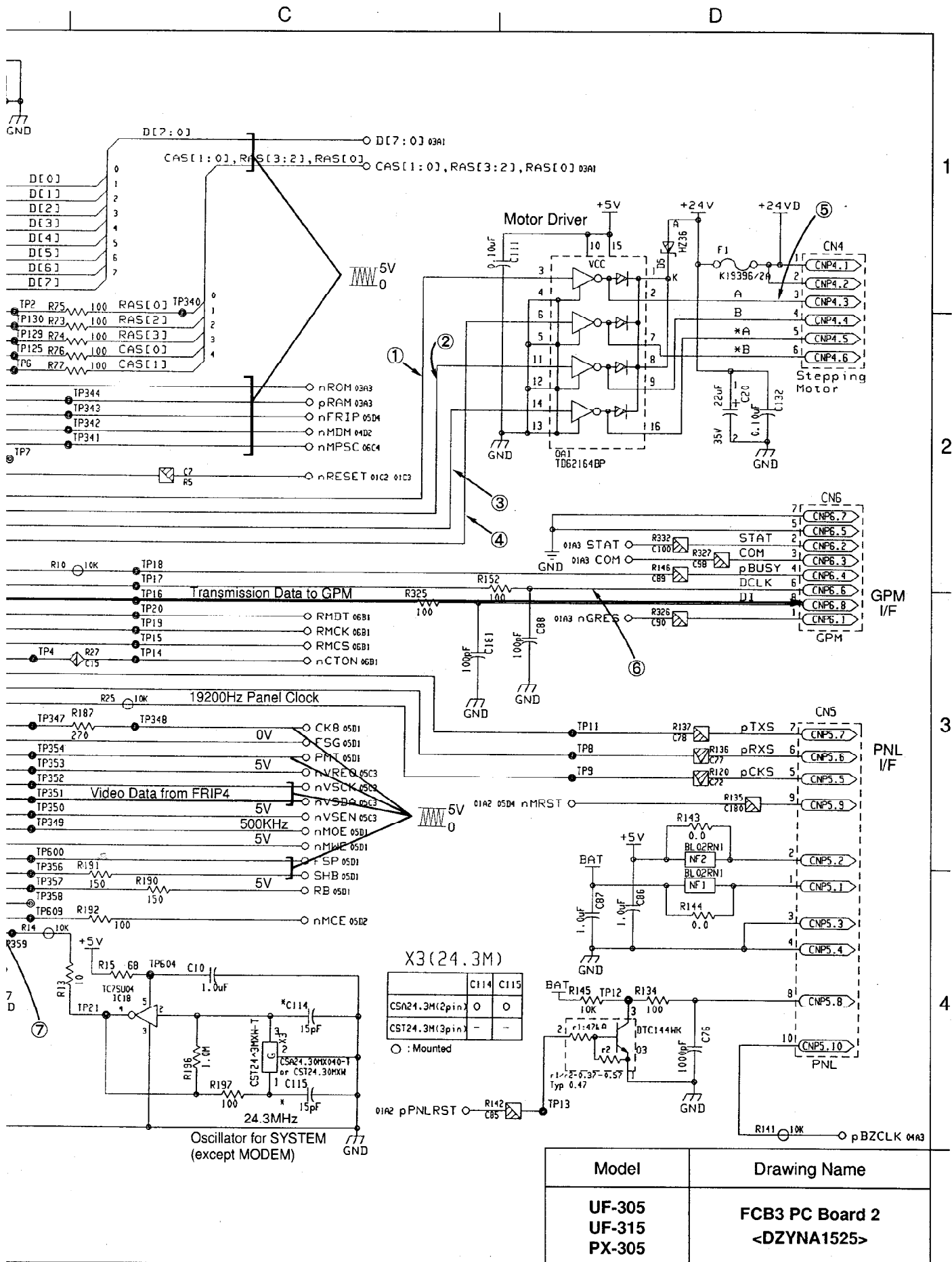


Single	
Check Point	
Mode	
Horizontal	
Vertical	

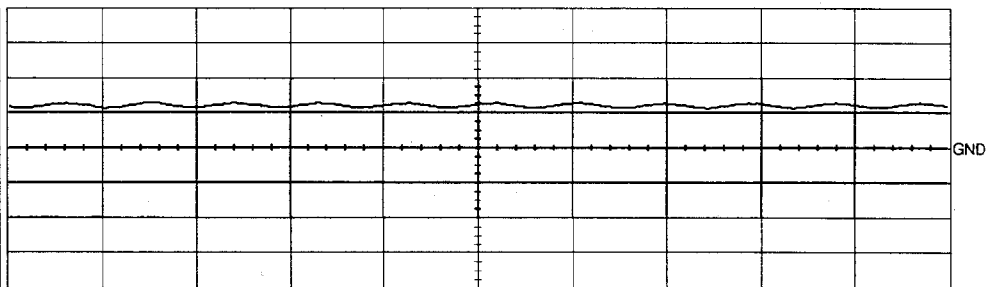


Single	
Check Point	
Mode	
Horizontal	
Vertical	

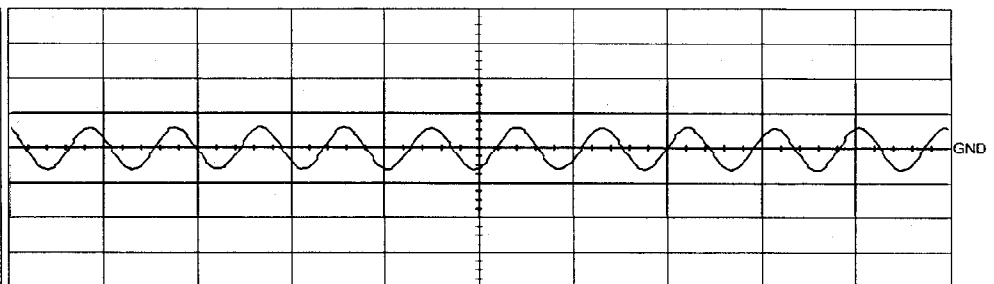




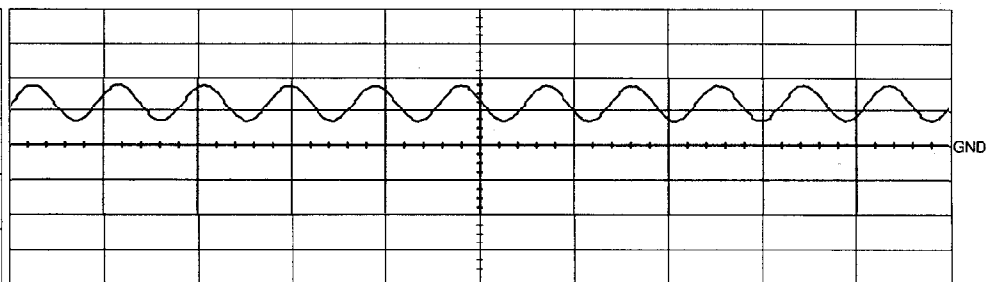
Single	①TX OUT
Check Point	IC12 Pin44
Mode	Test Mode5
Horizontal	1.0ms/div
Vertical	2.0V/div



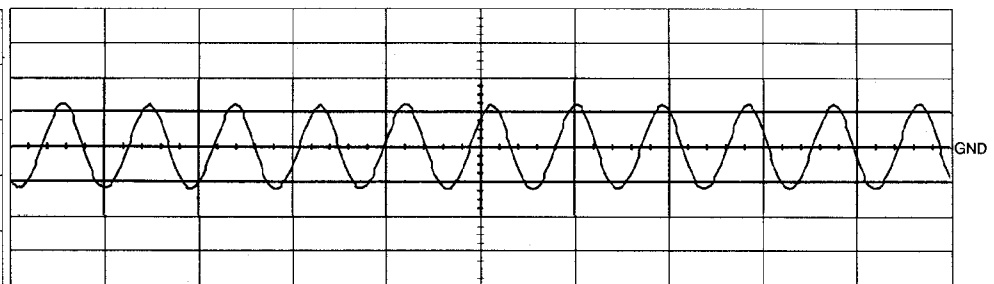
Single	③LPF
Check Point	IC1.2 Pin7
Mode	Test Mode5
Horizontal	1.0ms/div
Vertical	2.0V/div



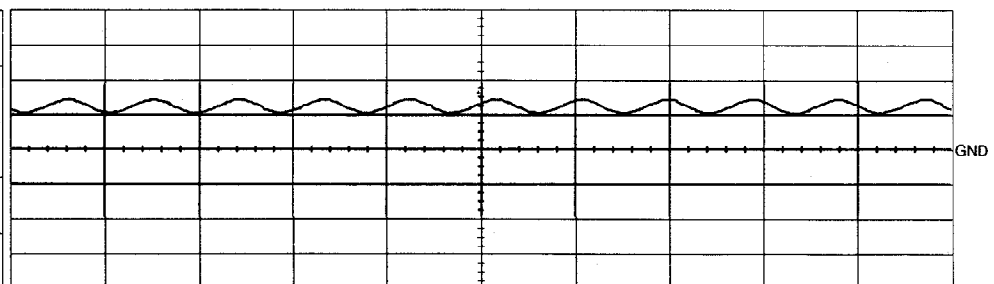
Single	⑤RX AMP Output
Check Point	IC4.2 Pin7
Mode	Test Mode5
Horizontal	1.0ms/div
Vertical	2.0V/div



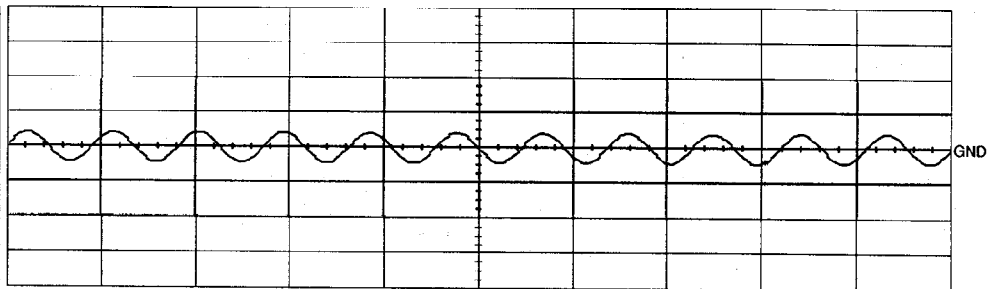
Single	⑦Monitor Volume Output 1
Check Point	IC22 Pin14
Mode	Test Mode5
Horizontal	1.0ms/div
Vertical	2.0V/div



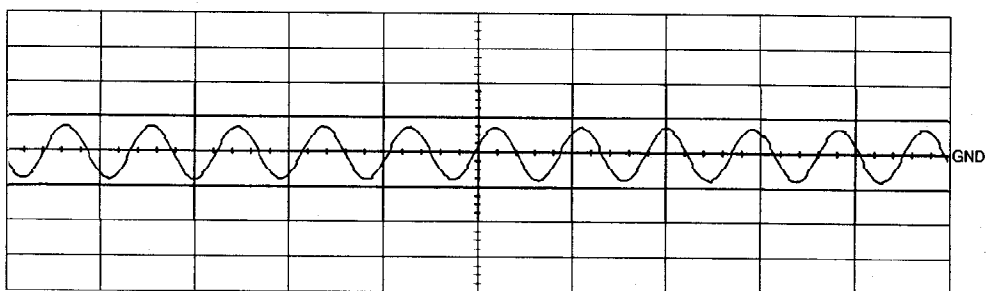
Single	⑨Speaker AMP Output
Check Point	IC7 Pin5
Mode	Test Mode5
Horizontal	1.0ms/div
Vertical	2.0V/div



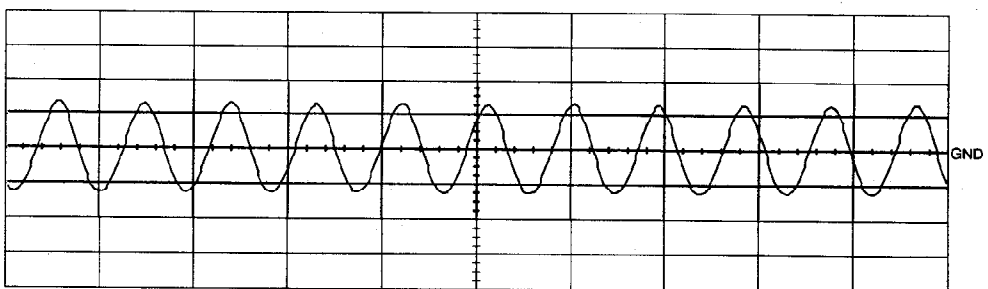
Single	②TX AMP Output
Check Point	IC1.1 Pin1
Mode	Test Mode5
Horizontal	1.0ms/div
Vertical	2.0V/div



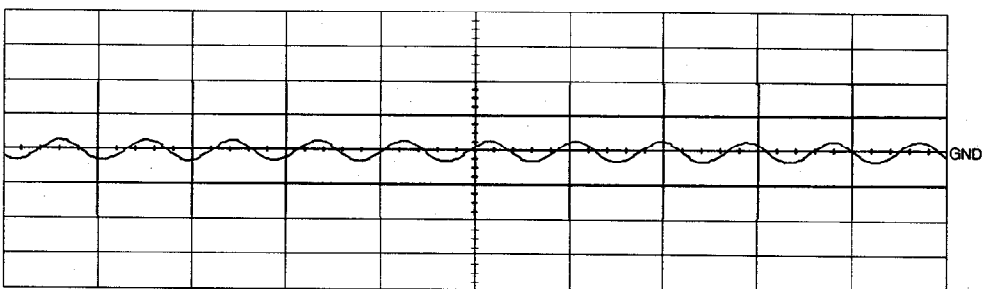
Single	④IC3 Output
Check Point	IC3 Pin14
Mode	Test Mode5
Horizontal	1.0ms/div
Vertical	2.0V/div



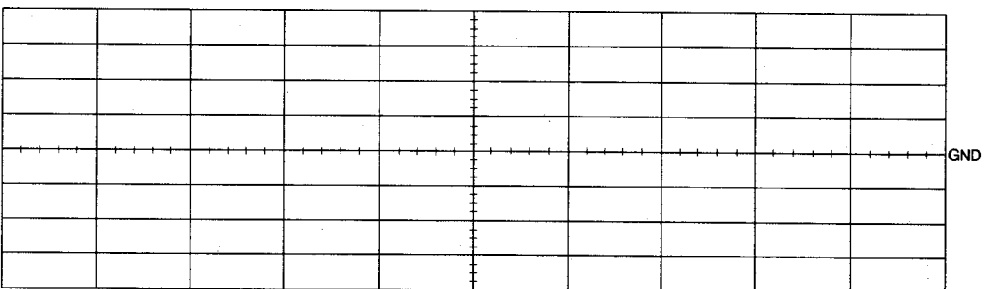
Single	⑥AGC Output
Check Point	IC5.2 Pin7
Mode	Test Mode5
Horizontal	1.0ms/div
Vertical	2.0V/div

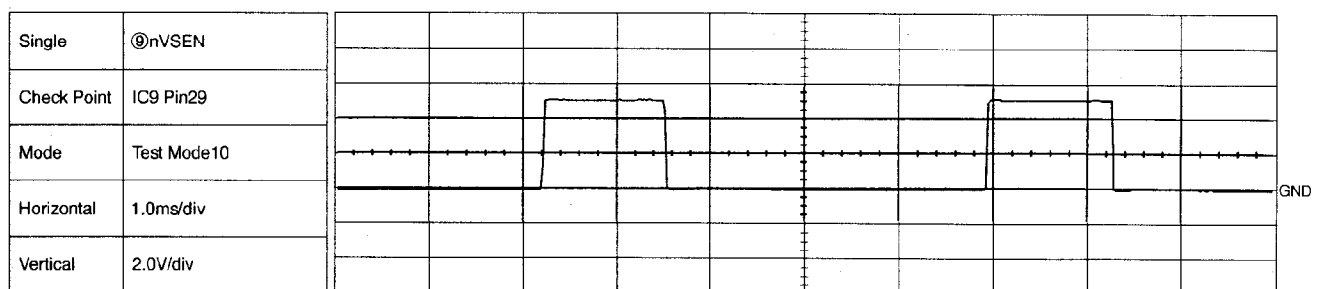
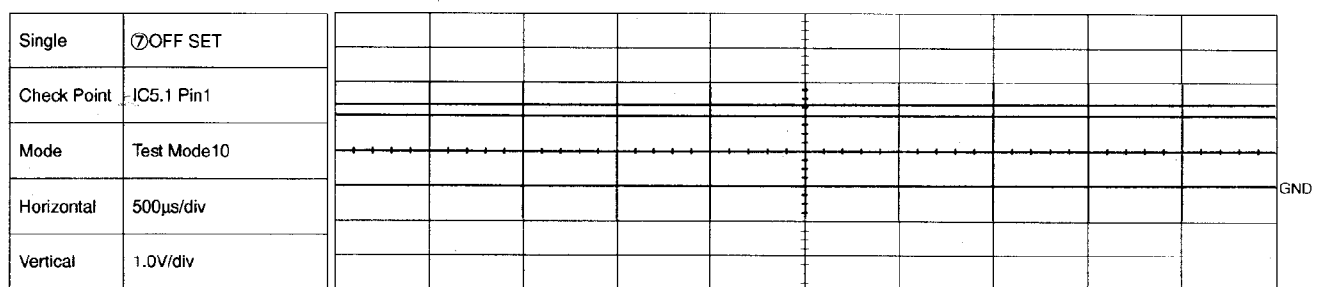
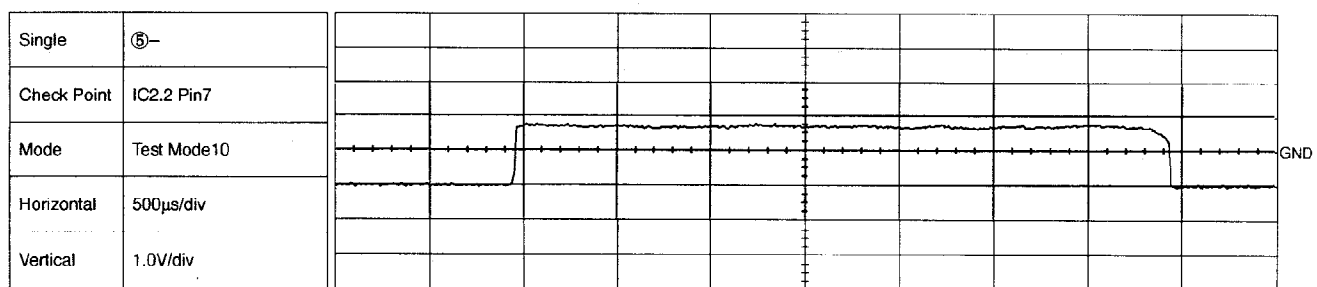
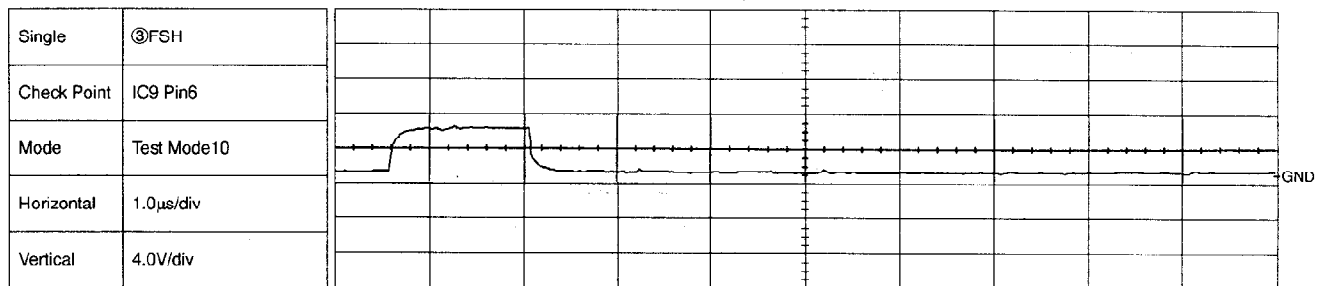
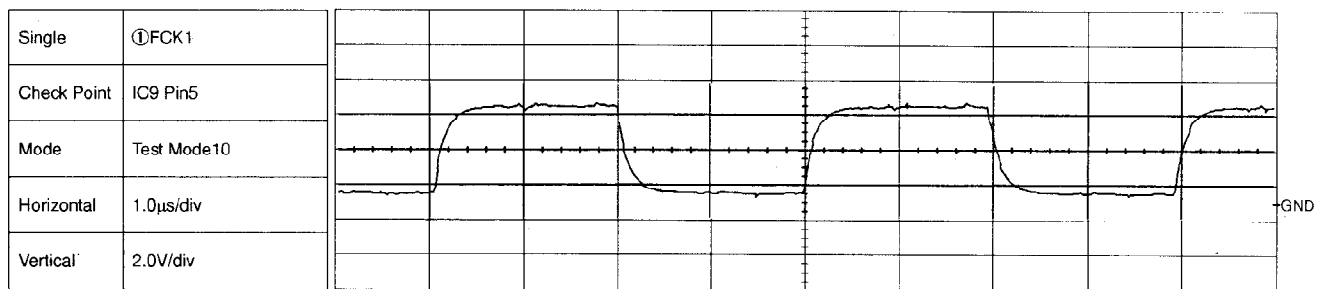


Single	Monitor Volume ⑧ Output 2
Check Point	IC22 Pin4
Mode	Test Mode5
Horizontal	1.0ms/div
Vertical	2.0V/div

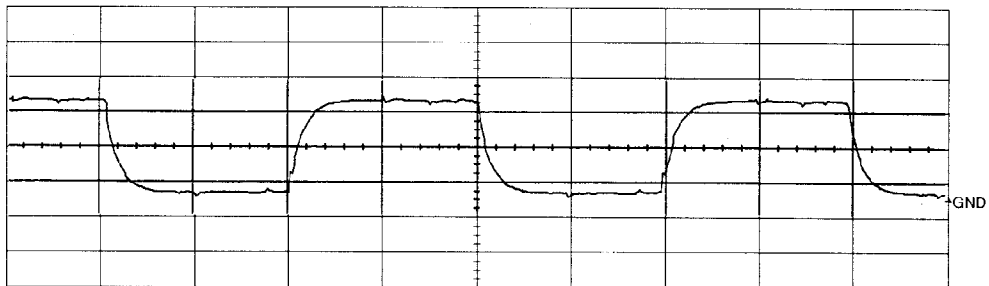


Single	
Check Point	
Mode	
Horizontal	
Vertical	

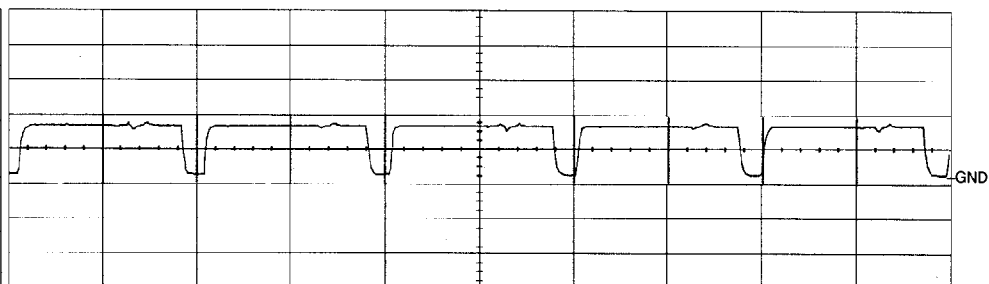




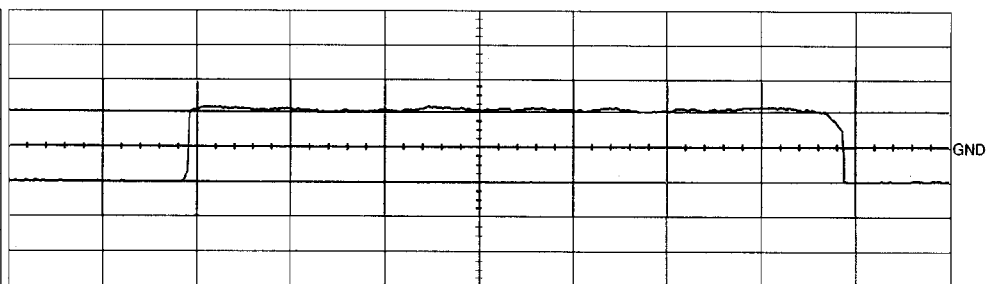
Single	②FCK2
Check Point	IC9 Pin4
Mode	Test Mode10
Horizontal	1.0μs/div
Vertical	2.0V/div



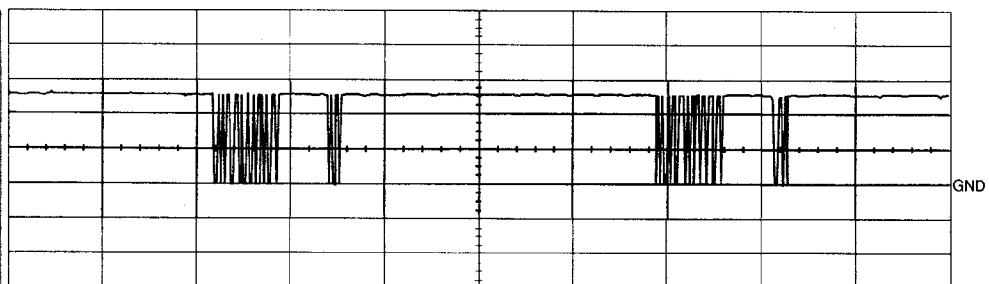
Single	④FR
Check Point	IC9 Pin8
Mode	Test Mode10
Horizontal	1.0μs/div
Vertical	4.0V/div



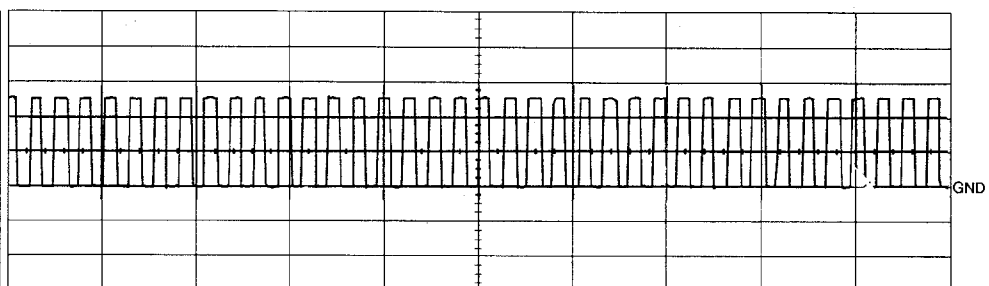
Single	⑥ADIN
Check Point	IC2.1 Pin1
Mode	Test Mode10
Horizontal	500μs/div
Vertical	1.0V/div

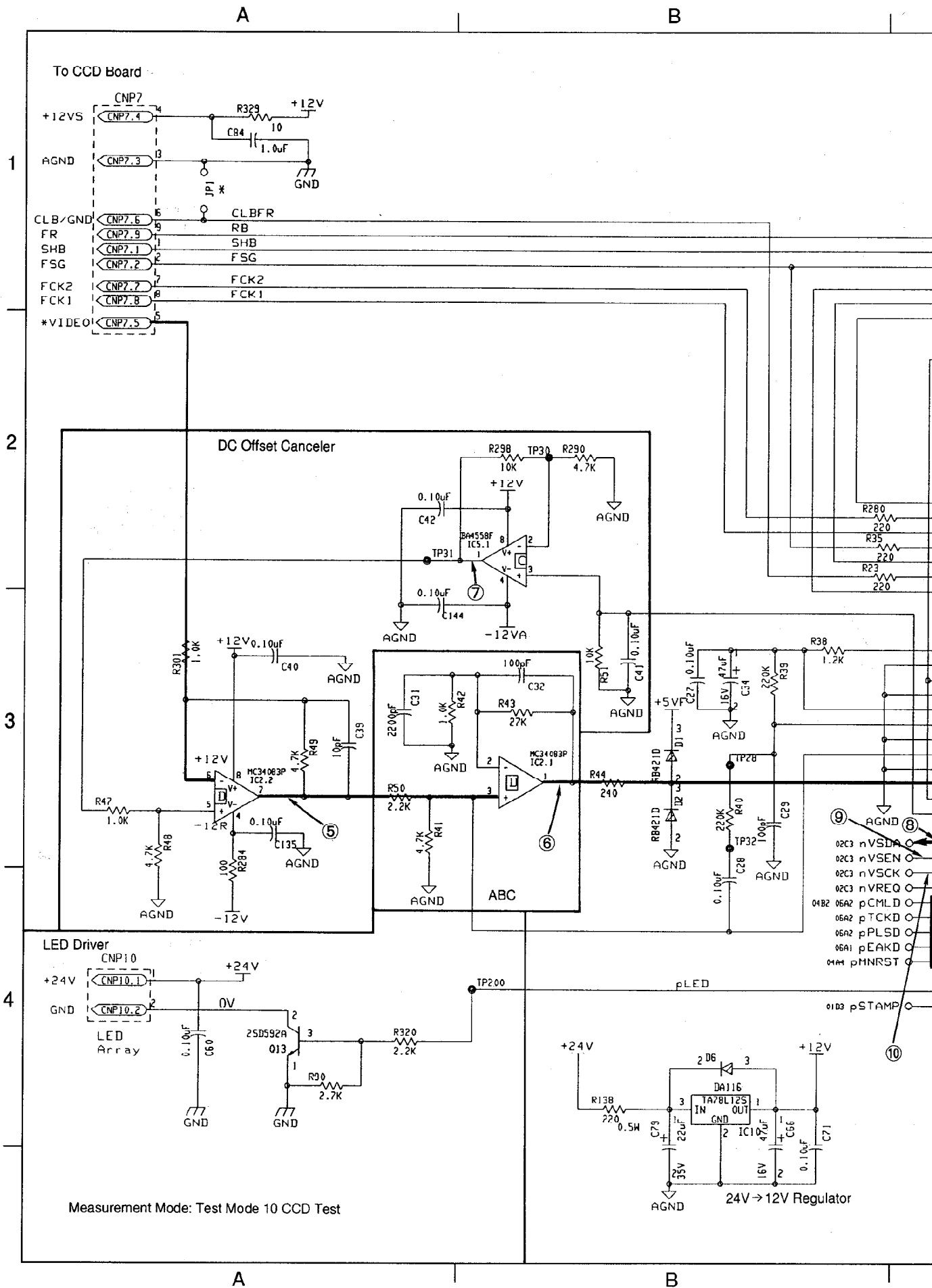


Single	⑧nVSDA
Check Point	IC9 Pin28
Mode	Test Mode10
Horizontal	1.0ms/div
Vertical	2.0V/div

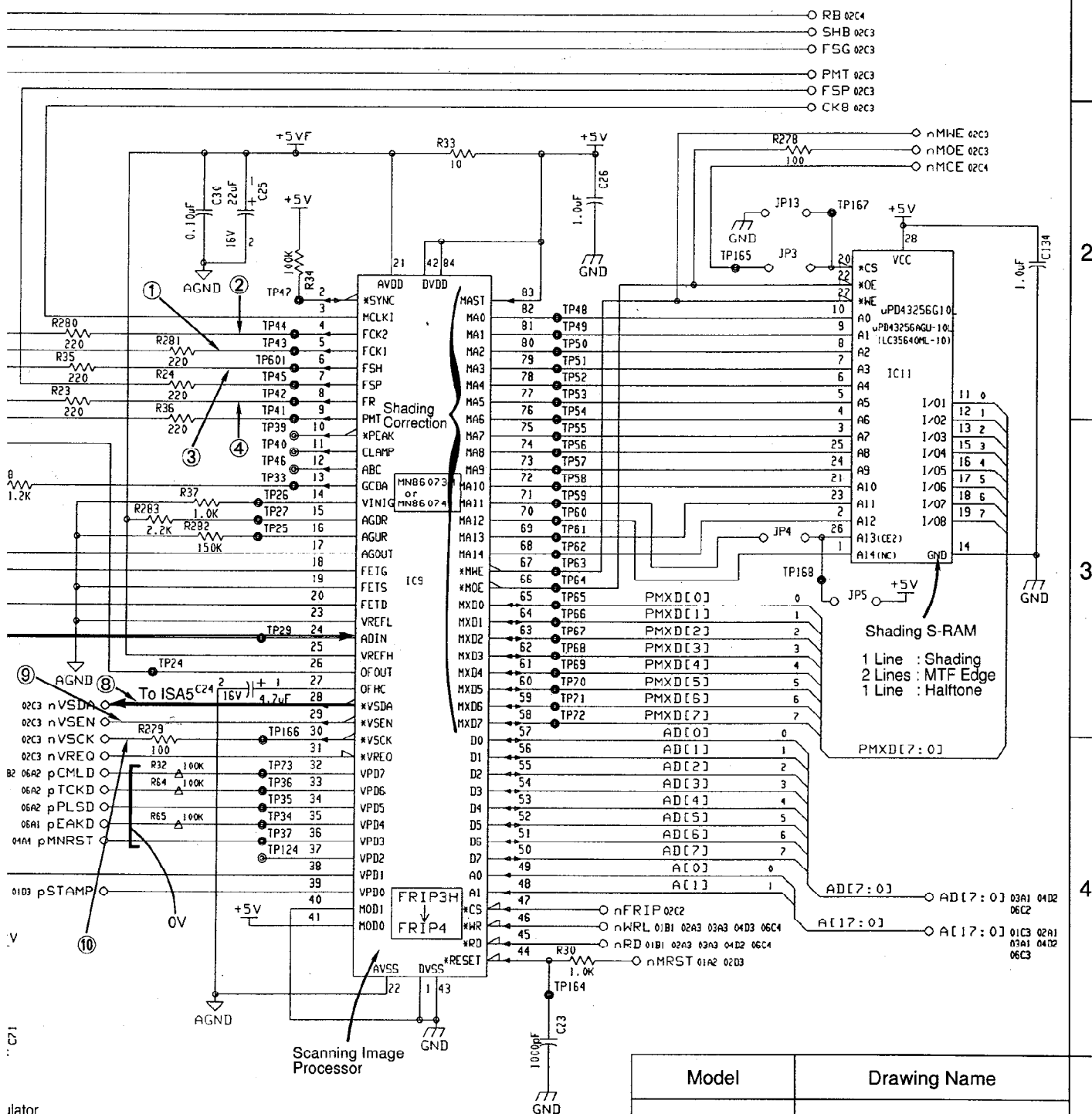


Single	⑩VSCK
Check Point	IC9 Pin30
Mode	Test Mode10
Horizontal	500μs/div
Vertical	2.0V/div





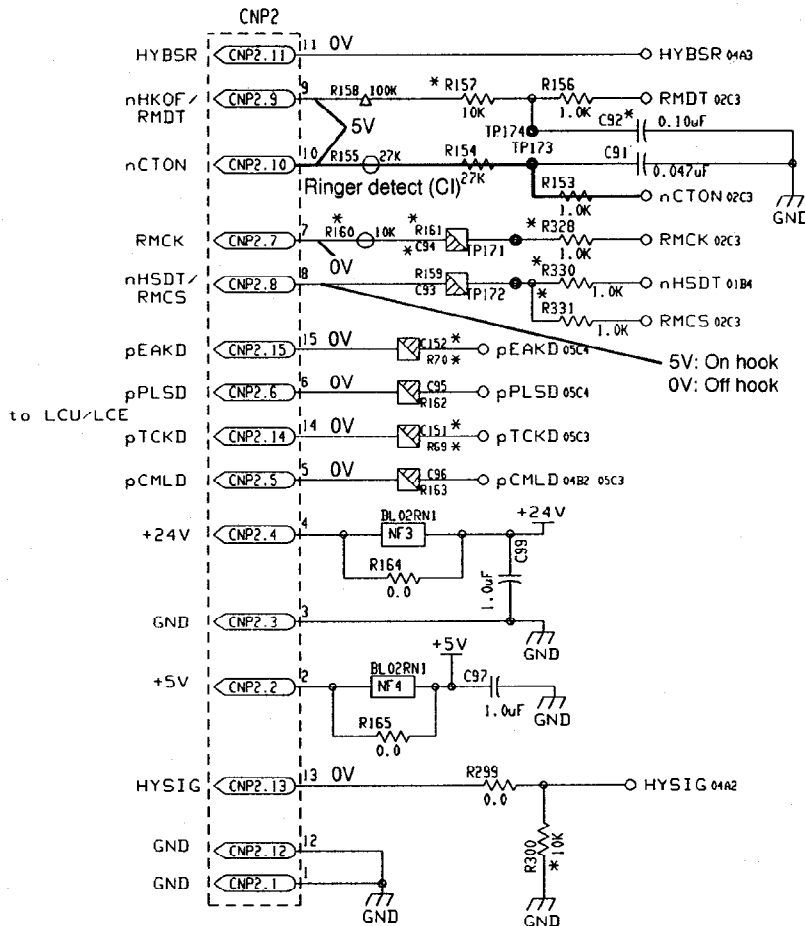
IC20	JP3	JP13	JP4	JP5	
6264	-	0	-	0	200dpi, A4/B4
43256	-	0	0	-	300dpi, A4
HM65256B	0	-	0	-	300dpi, A4 (Pseudo SRAM)



Model	Drawing Name
UF-305 UF-315 PX-305	FCB3 PC Board 5 <DZYNA1525>

A

B

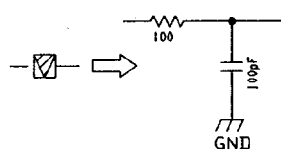
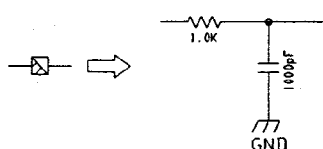
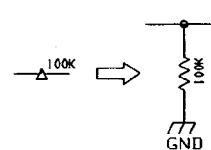
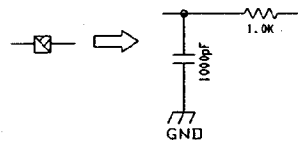
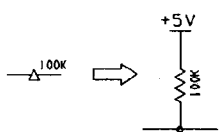
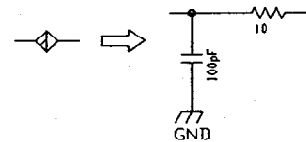
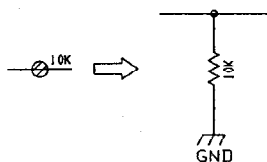
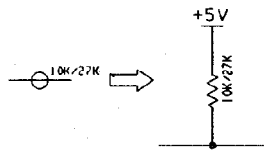


*	for North America	Others
R69	—	○
R70	—	○
R157	10k Ω	1k Ω
R160	—	○
R161	—	○
R328	—	○
R300	—	○
R331	—	○
R330	—	○
C92	0.1 μ F	1000pF
C94	—	○
C151	—	○
C152	—	○

○ : Mounted

03A1 04D2 05D4 AD[7:0] ○

01C3 02A1 03A1 04D2 05D4 A[17:0] ○

5V
0

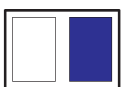
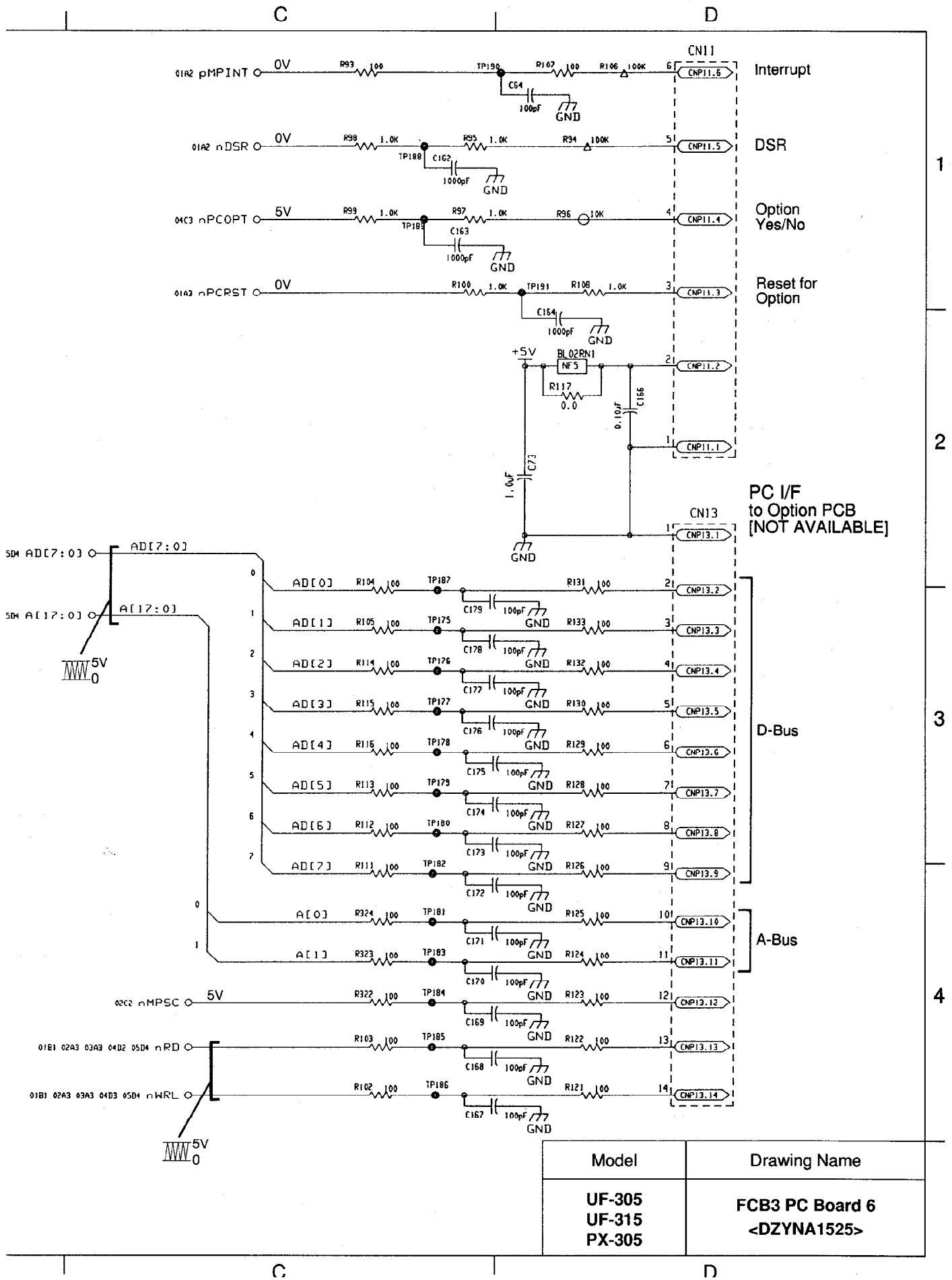
01B1 02A3 03A3

01B1 02A3 03A3 0

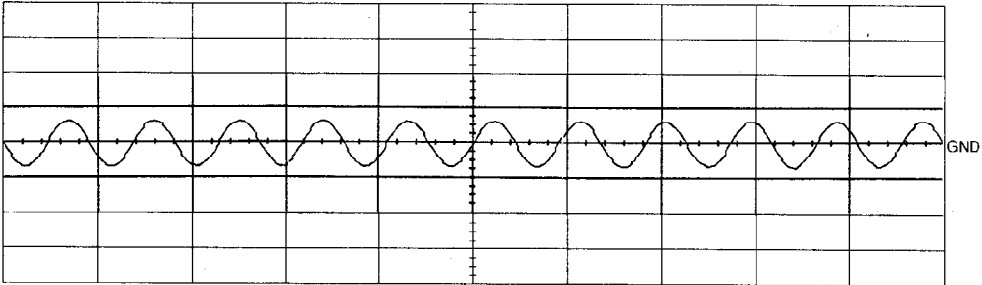
A

B

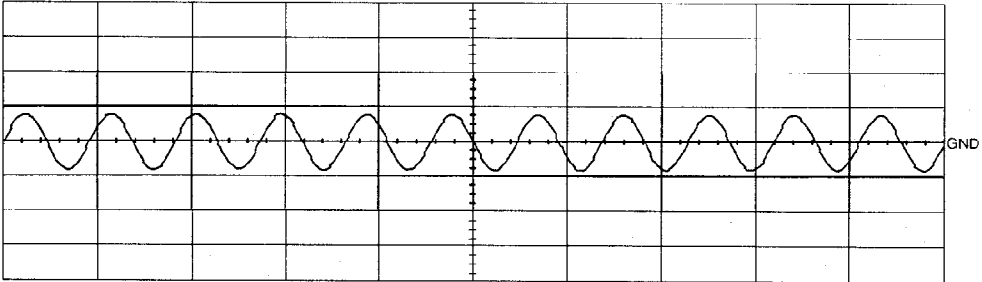




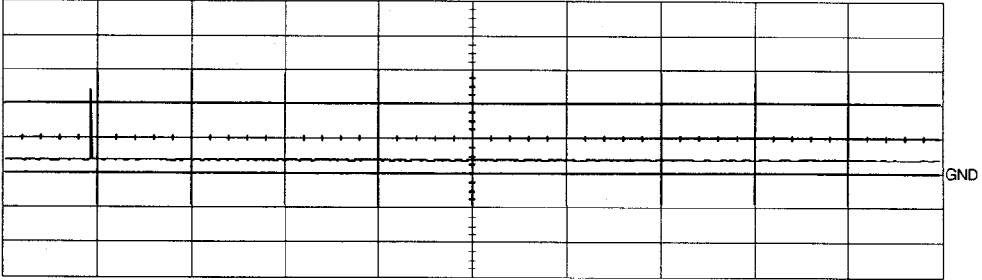
Single	①L1, L2
Check Point	CNJ20 Pin3,4
Mode	Test Mode5
Horizontal	1.0ms/div
Vertical	1.0V/div



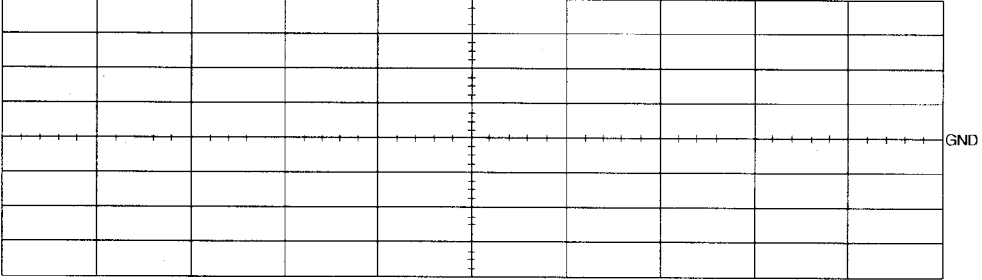
Single	③HYBSR
Check Point	CNP25 Pin11, 12
Mode	Test Mode5
Horizontal	1.0ms/div
Vertical	1.0V/div



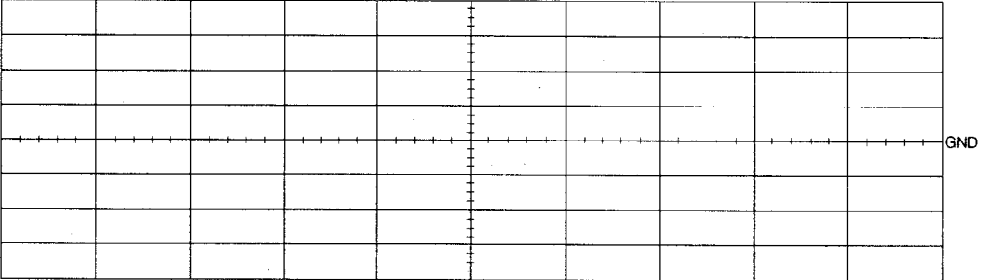
Single	⑤CLK
Check Point	IC2 Pin10
Mode	Test Mode5
Horizontal	200ms/div
Vertical	2.0V/div



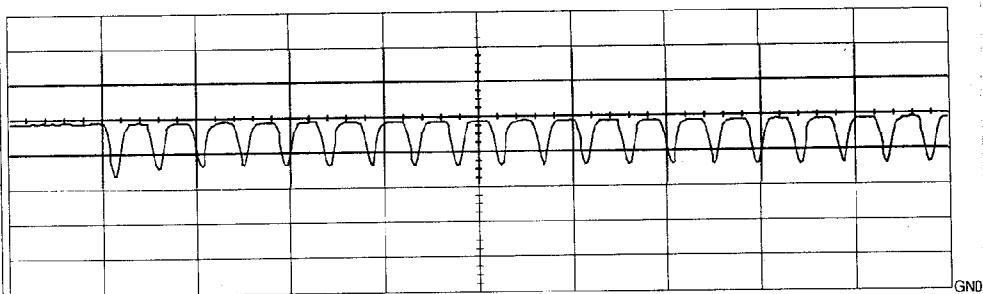
Single	
Check Point	
Mode	
Horizontal	
Vertical	



Single	
Check Point	
Mode	
Horizontal	
Vertical	

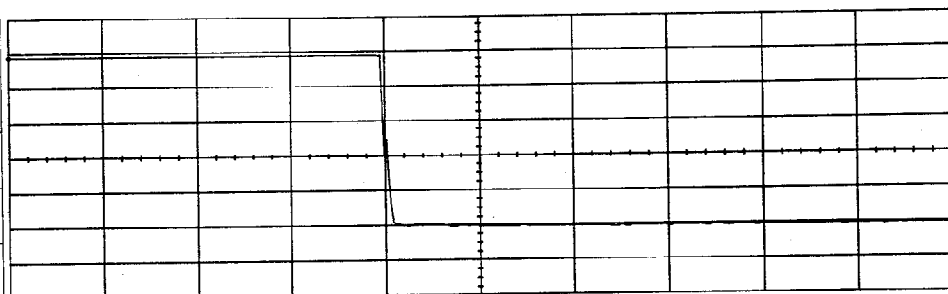


Single	②CTON
Check Point	CNP25 Pin10
Mode	CI Detect
Horizontal	100ms/div
Vertical	1.0V/div



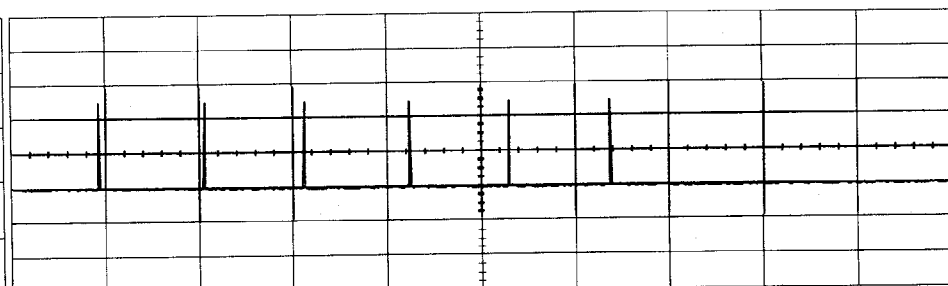
GND

Single	④—
Check Point	IC2 Pin18
Mode	Off Hook
Horizontal	1.0ms/div
Vertical	1.0V/div



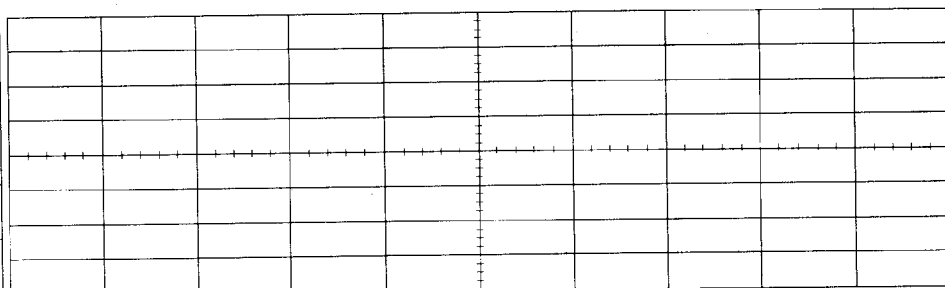
GND

Single	⑥Data
Check Point	IC2 Pin3
Mode	Test Mode5
Horizontal	200ms/div
Vertical	2.0V/div



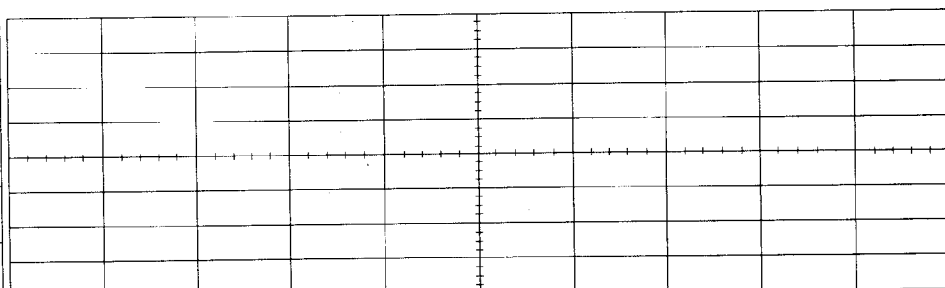
GND

Single	
Check Point	
Mode	
Horizontal	
Vertical	

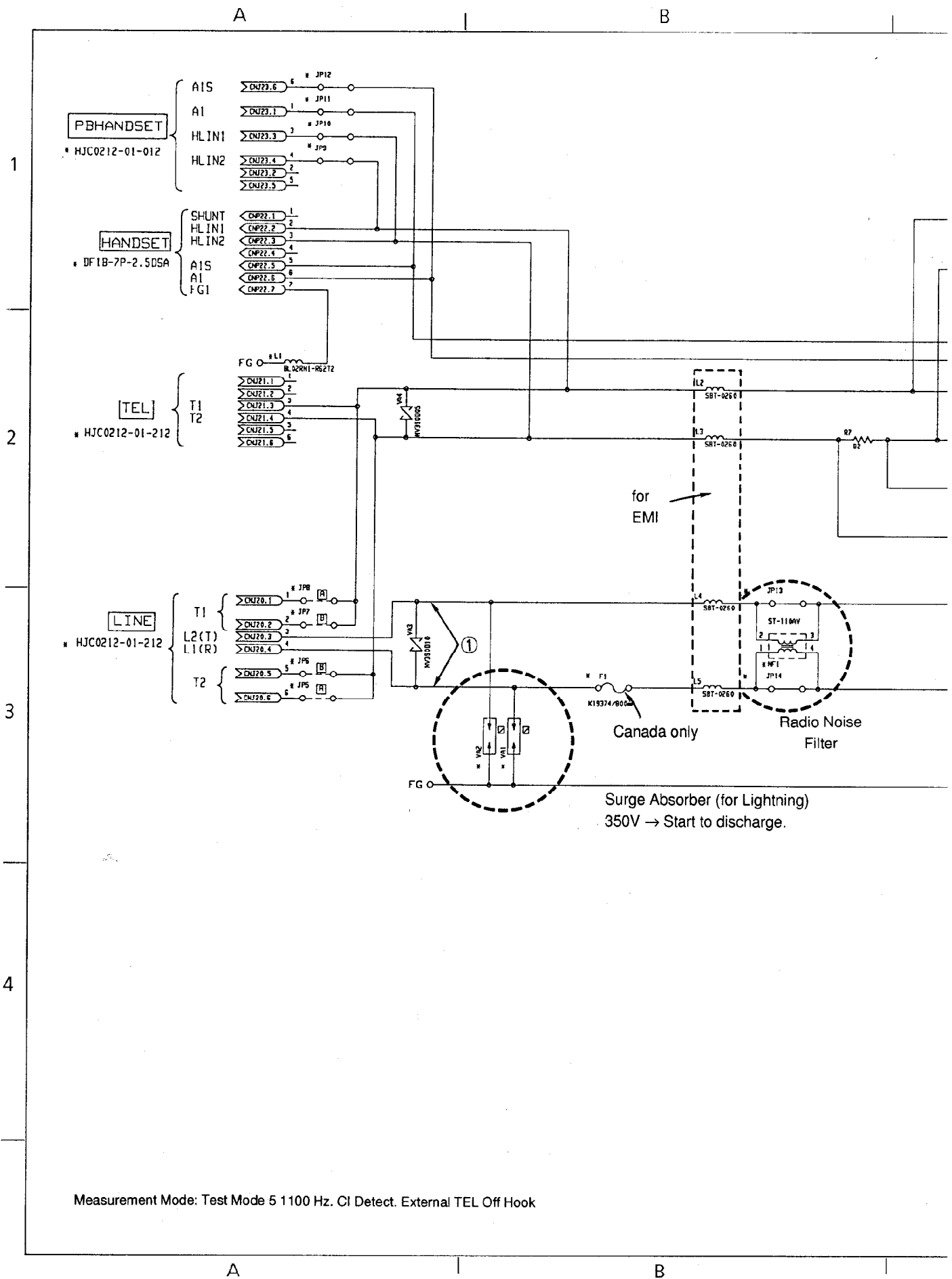


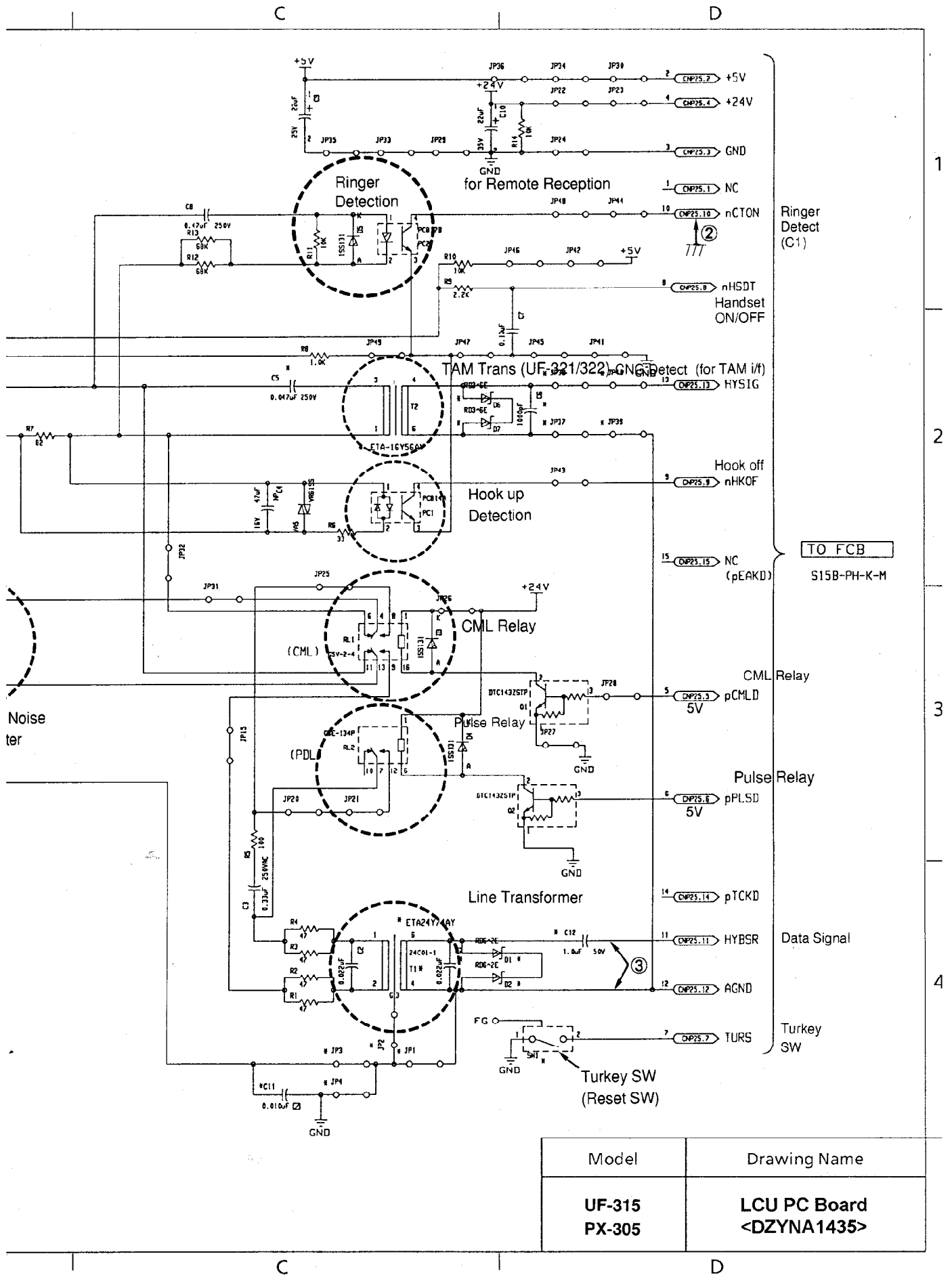
GND

Single	
Check Point	
Mode	
Horizontal	
Vertical	



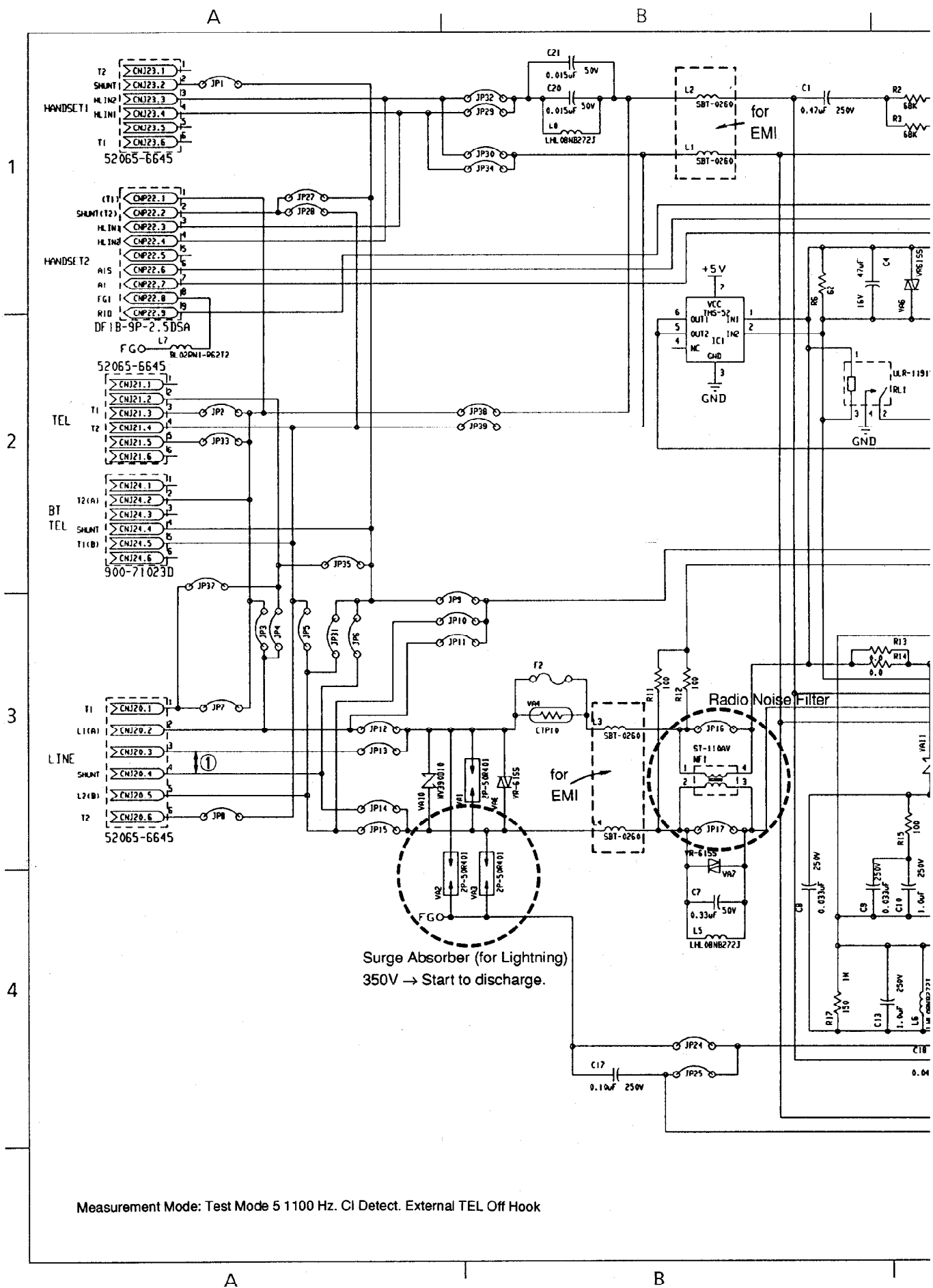
GND

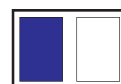
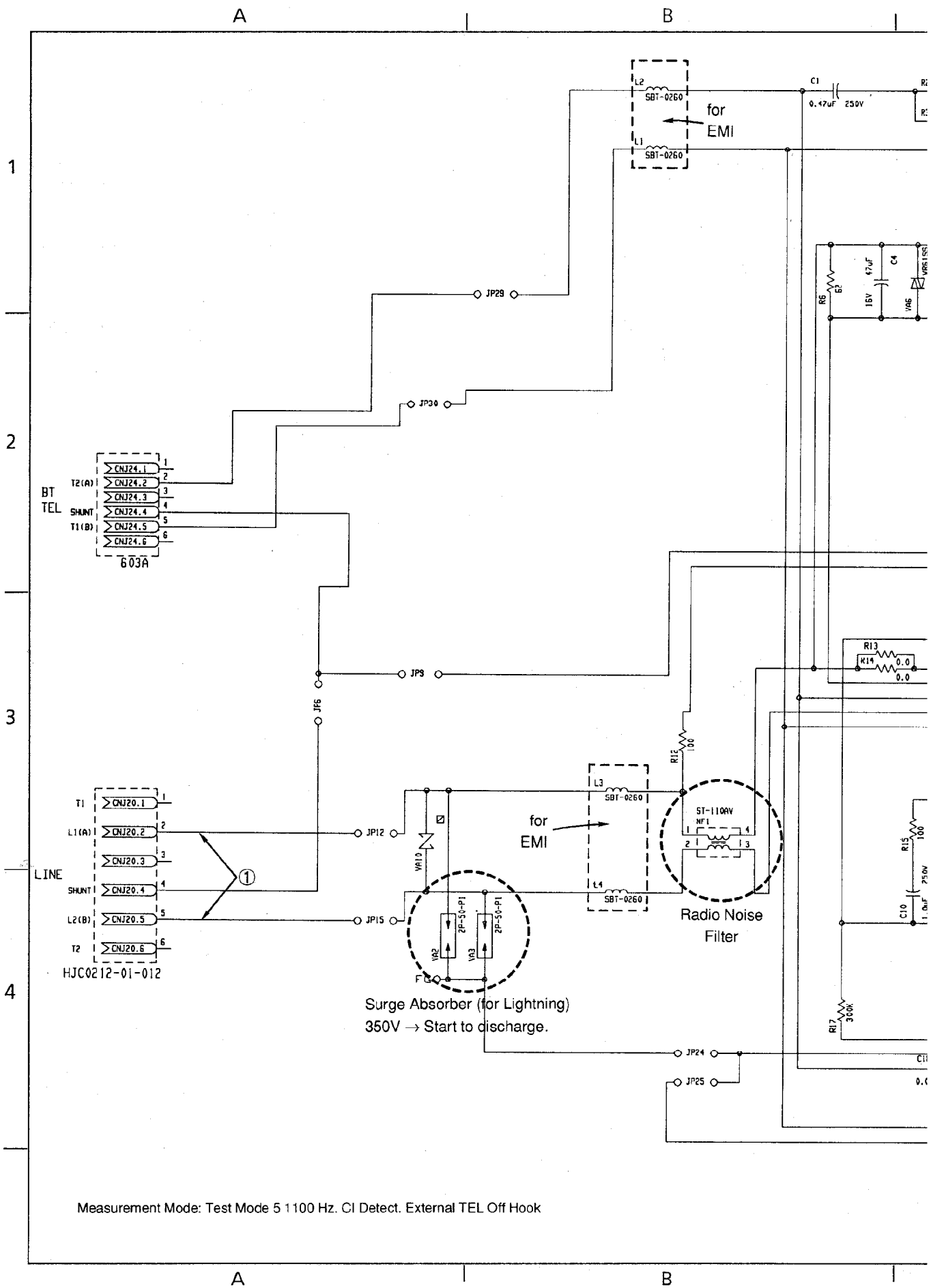




Model	Drawing Name
UF-315 PX-305	LCU PC Board <DZYNA1435>

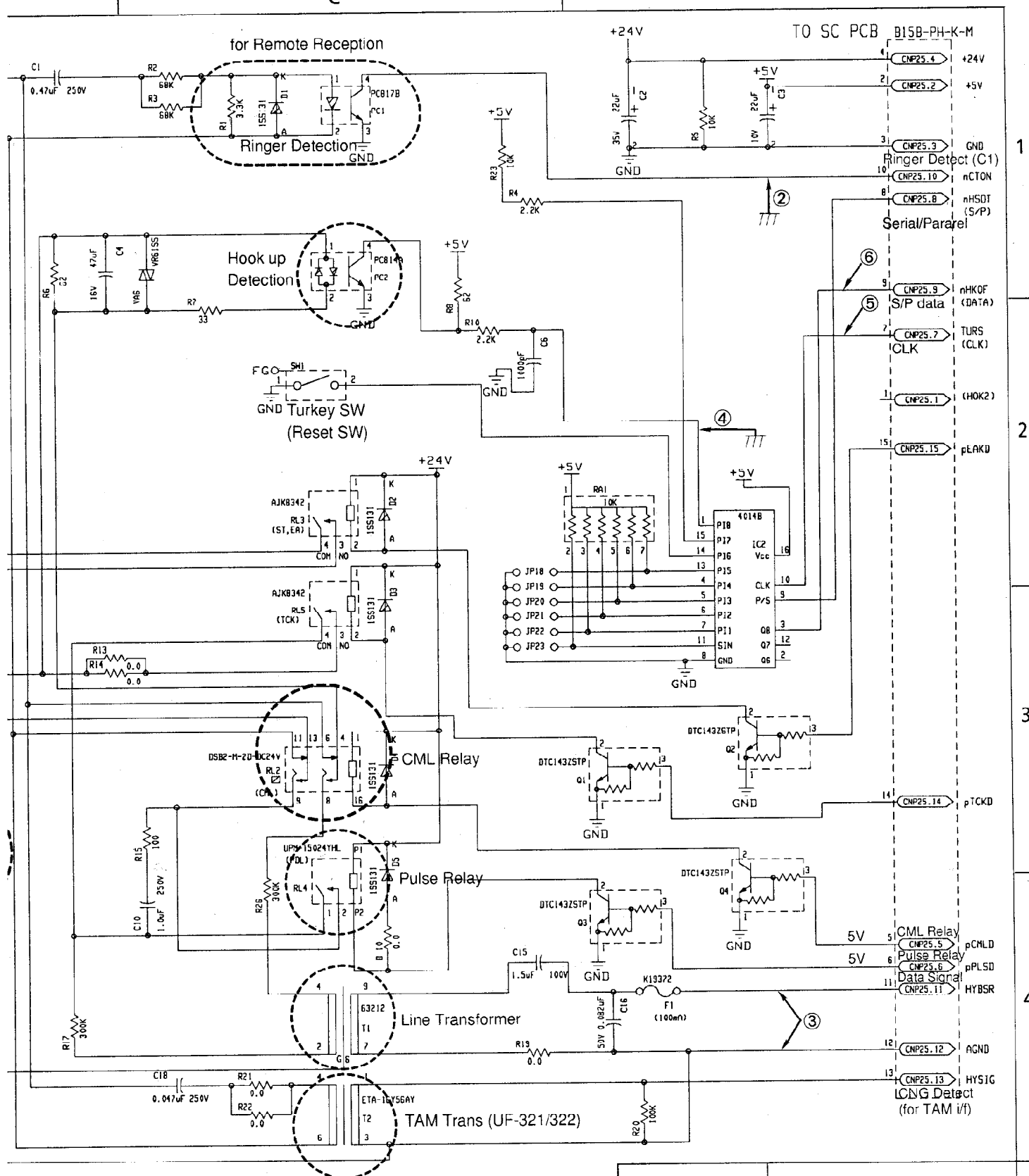






C

D

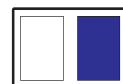


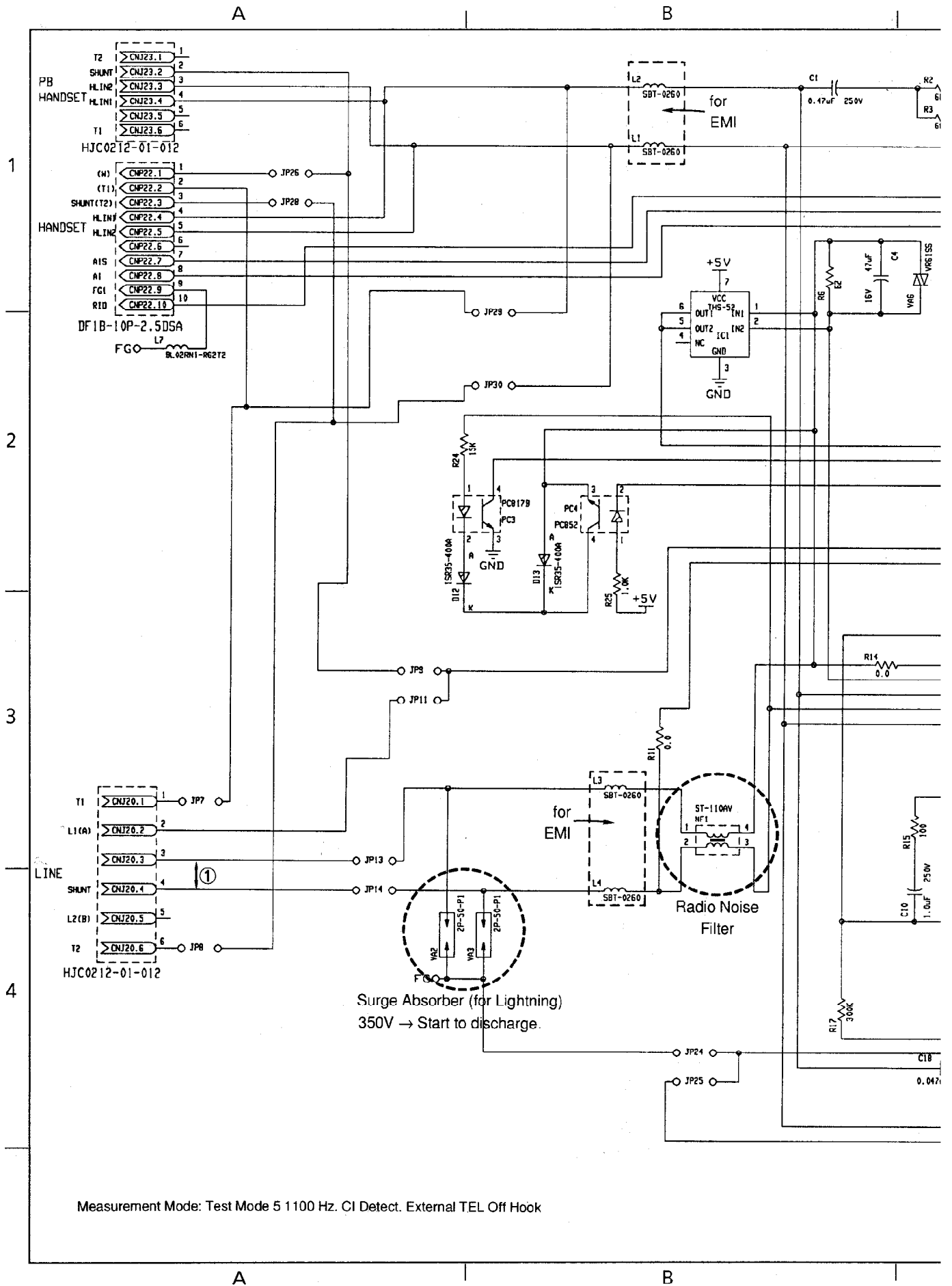
Model

Drawing Name

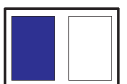
UF-305
UF-315

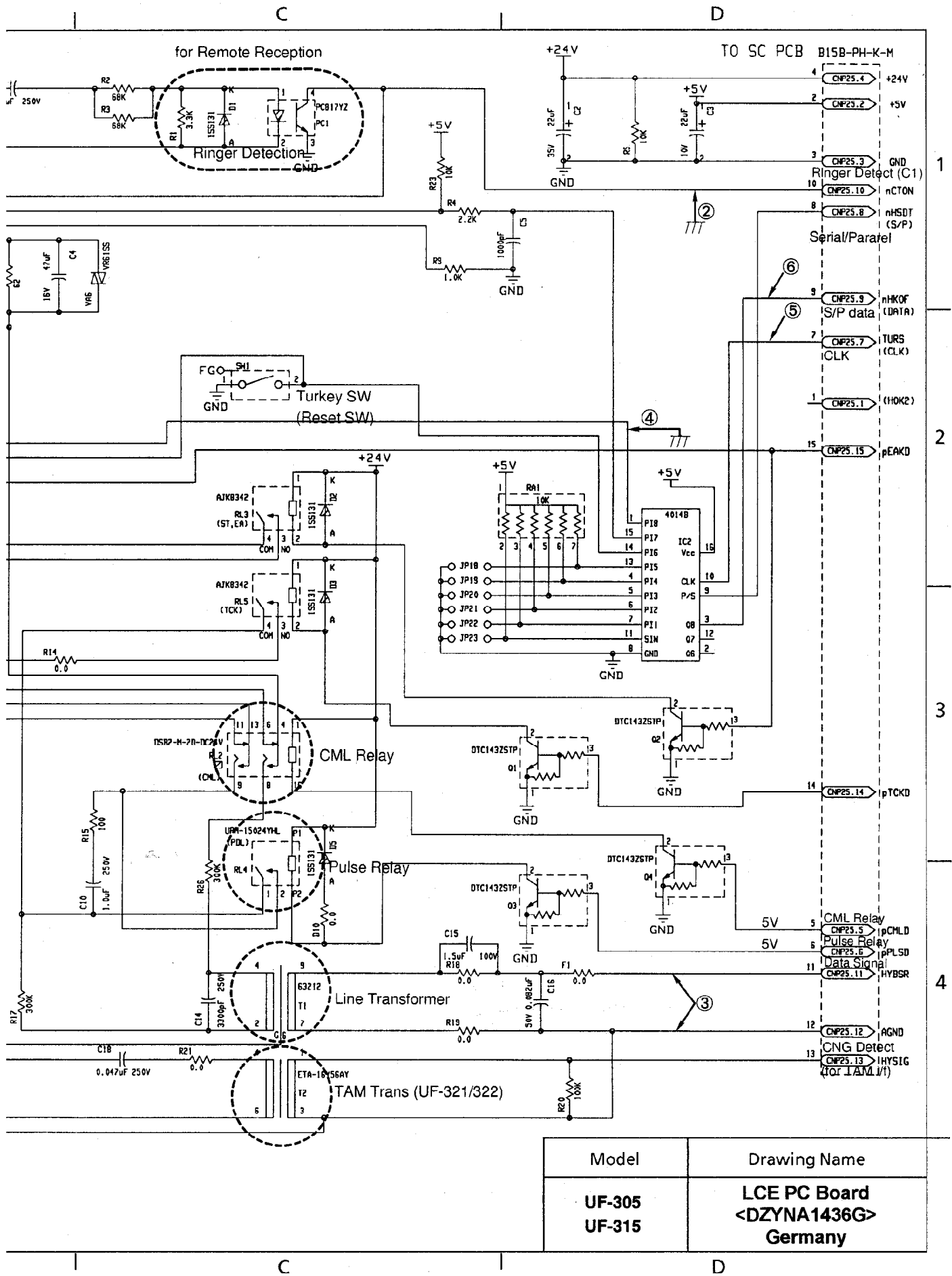
LCE PC Board
<DZYNA1436B>
U.K.

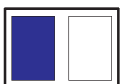
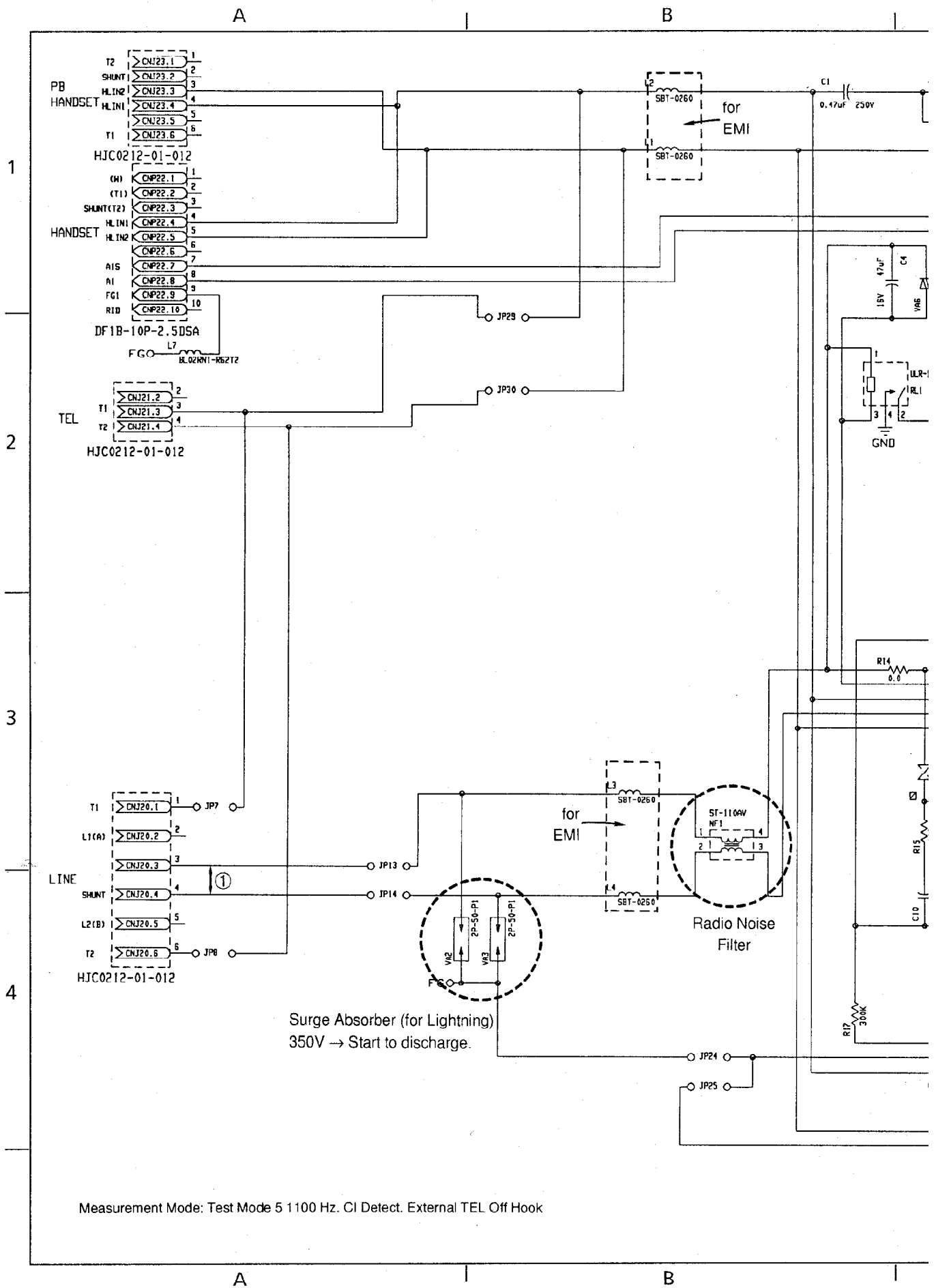


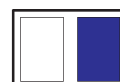
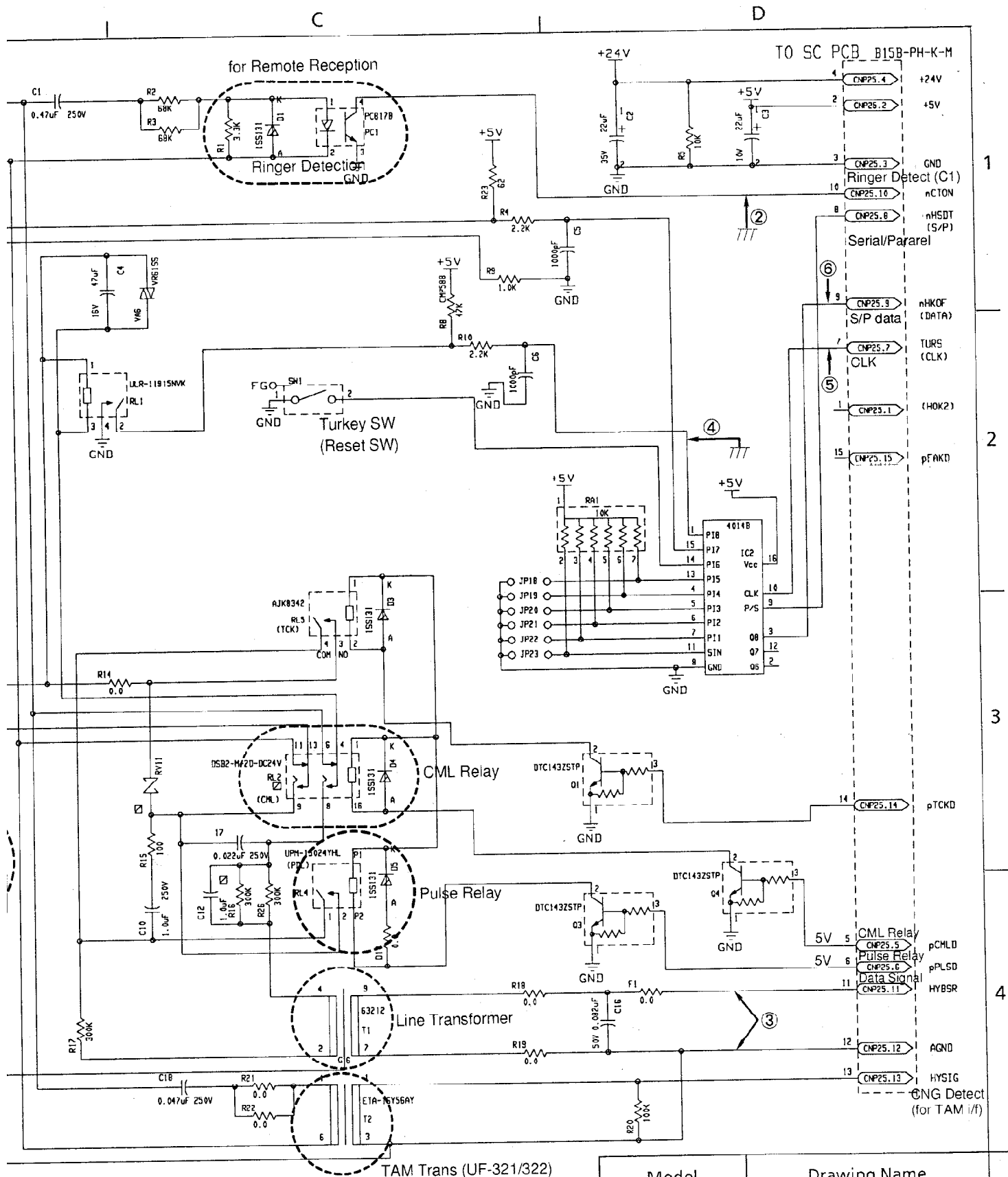


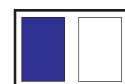
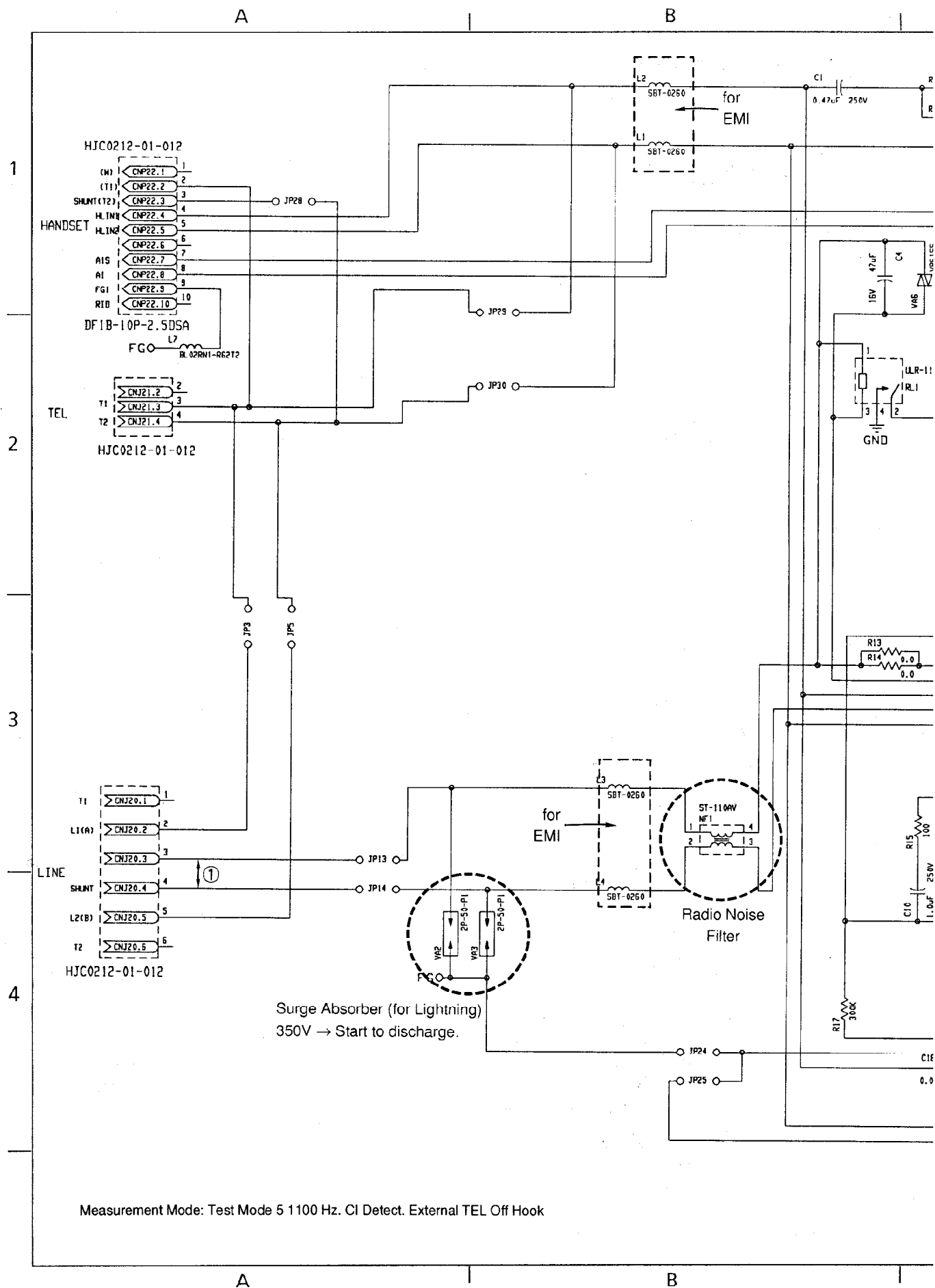
Measurement Mode: Test Mode 5 1100 Hz. CI Detect. External TEL Off Hook

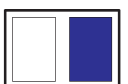
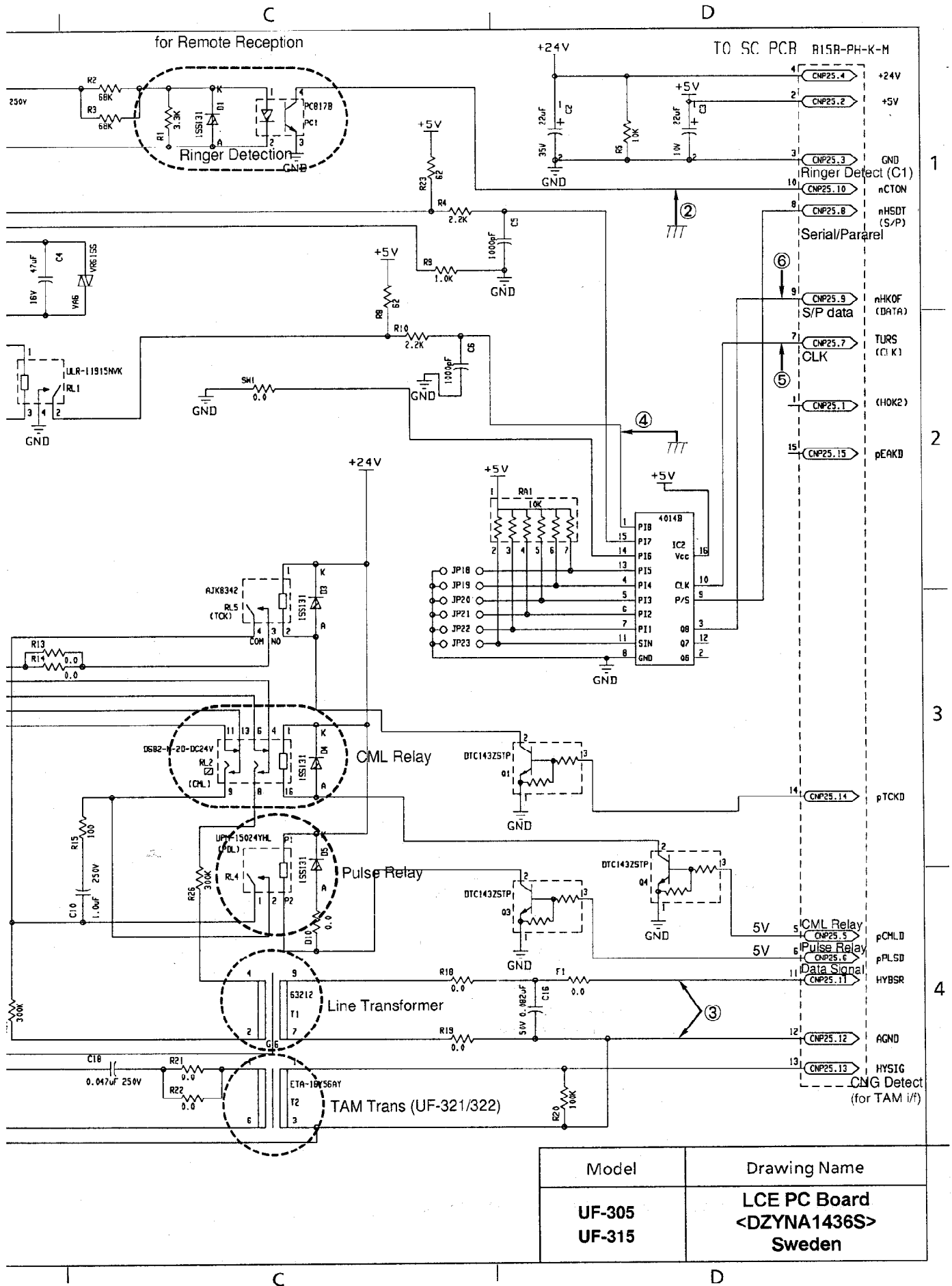


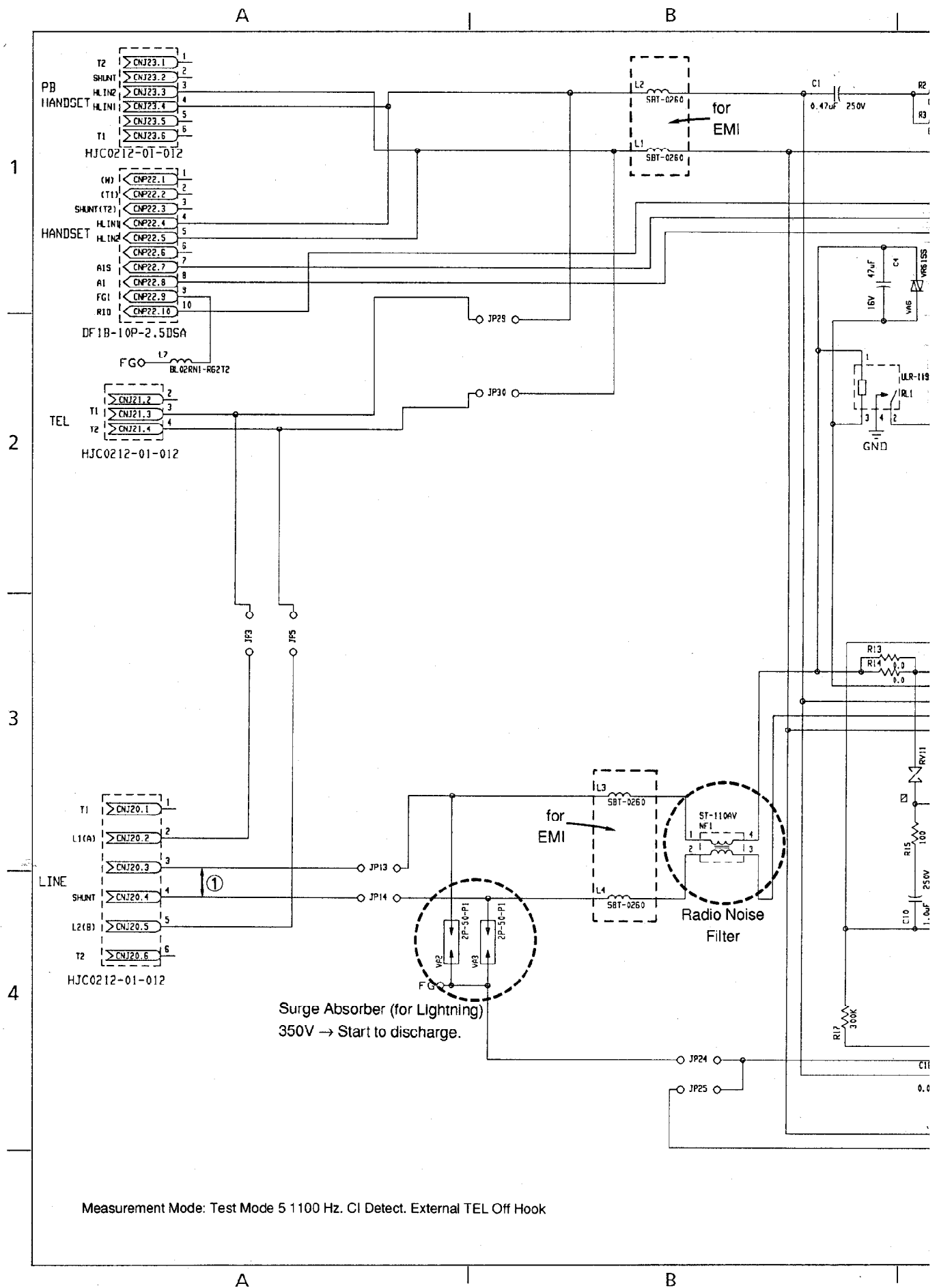


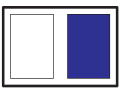
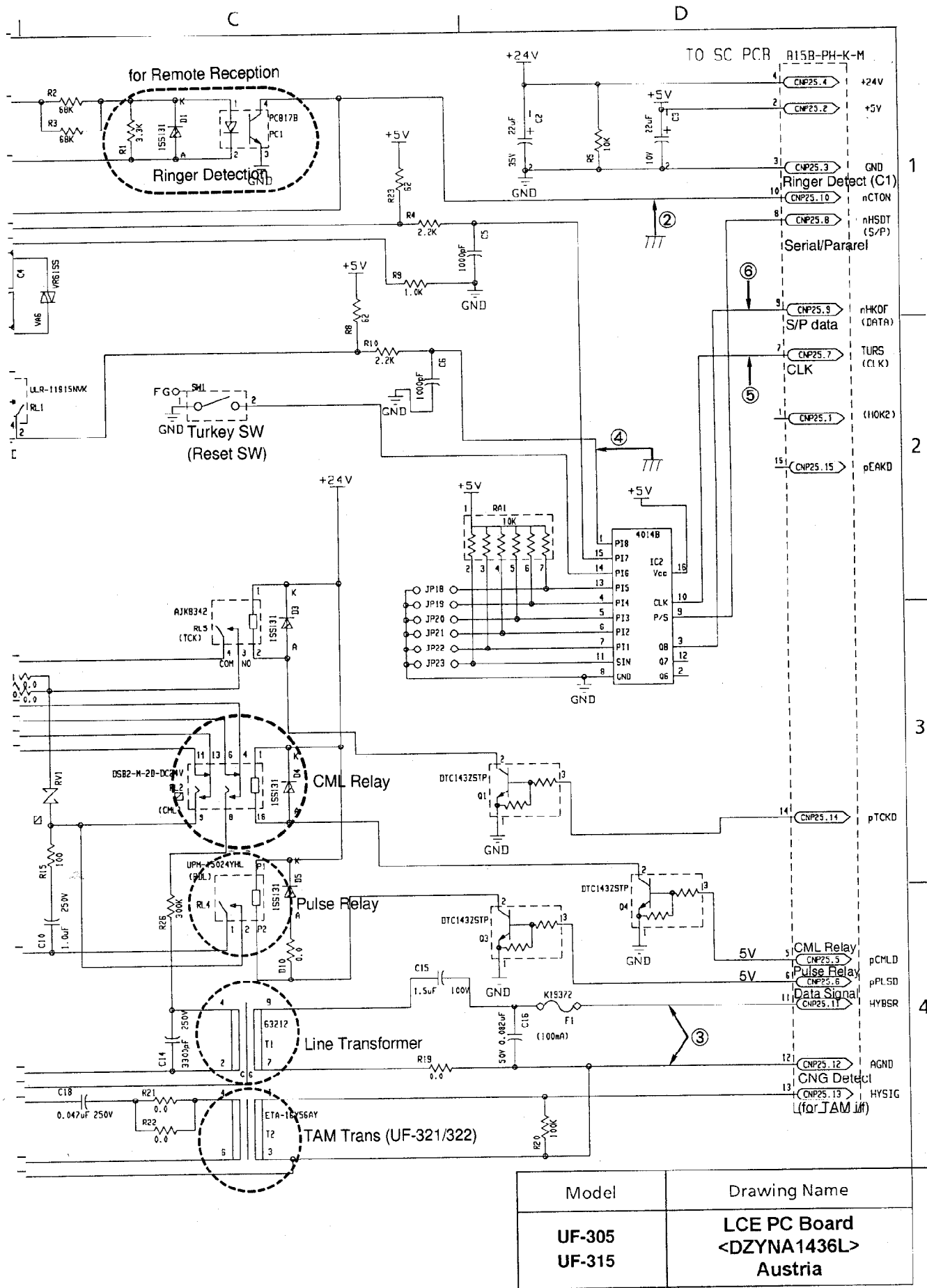


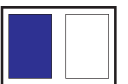
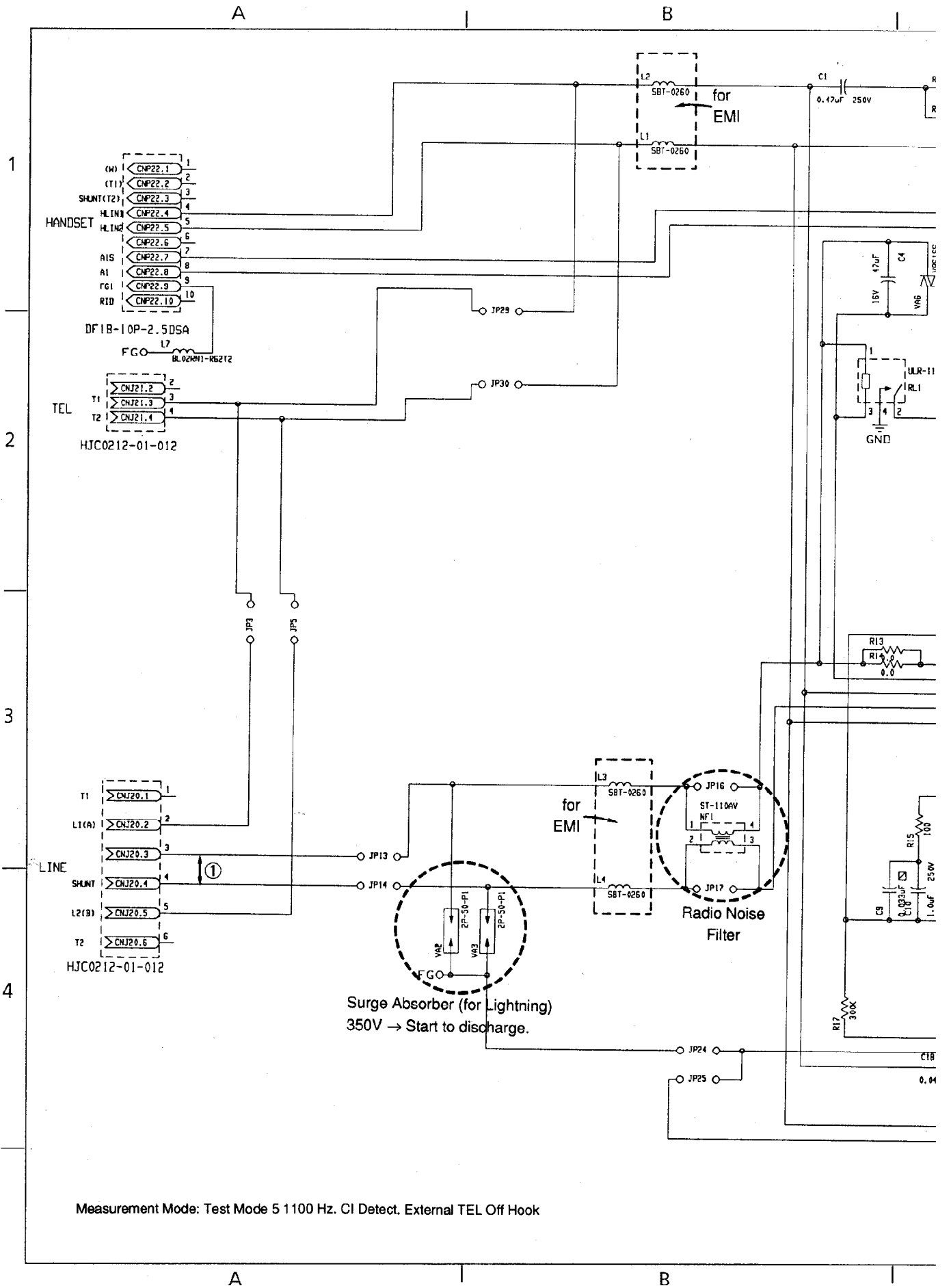


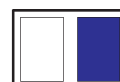
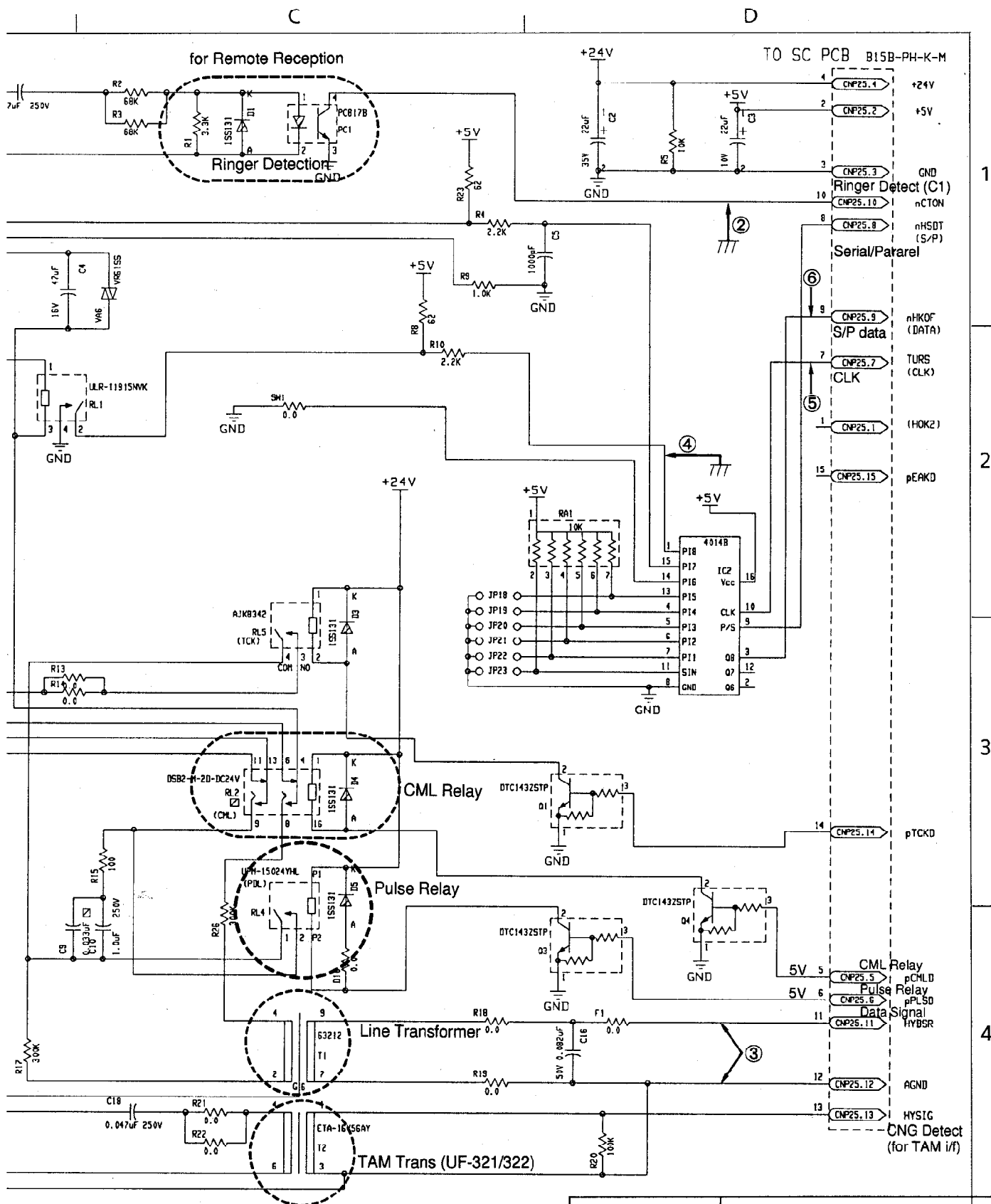












A

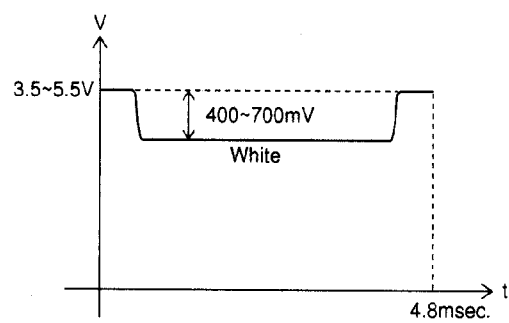
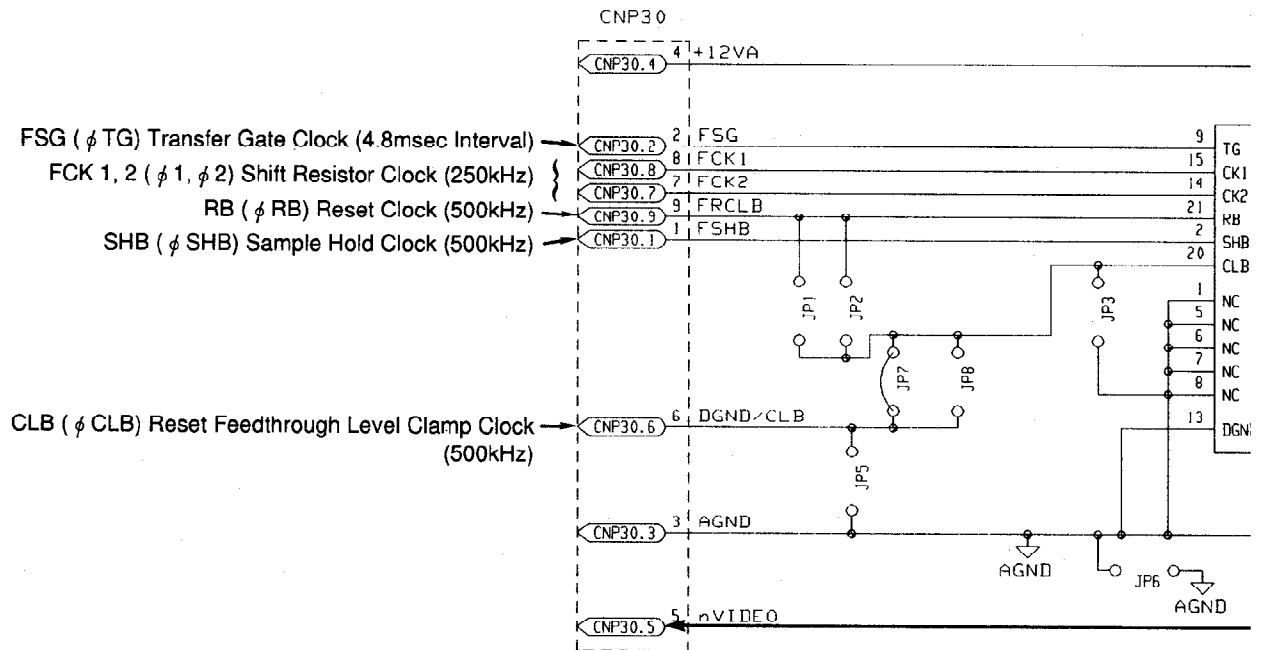
B

1

2

3

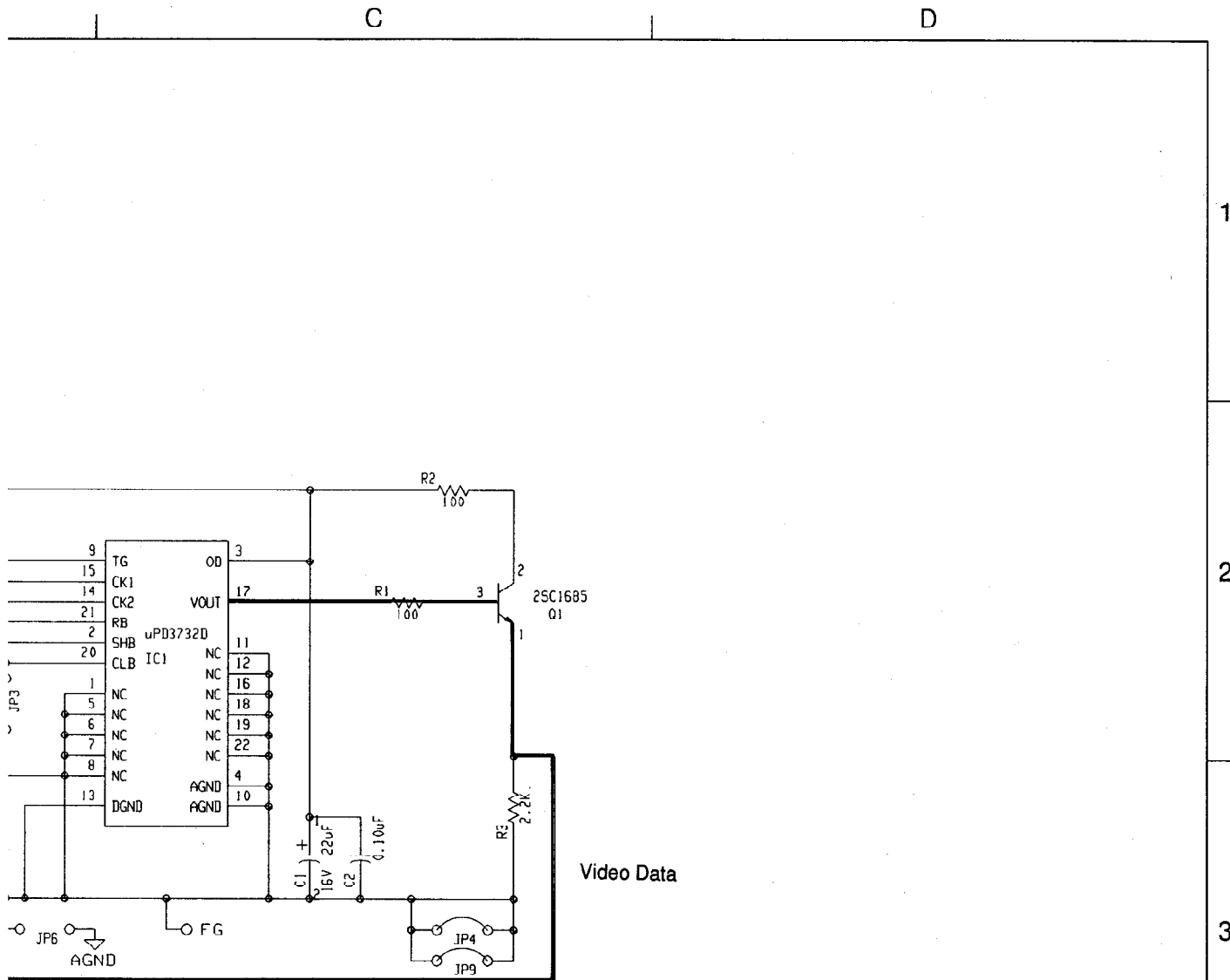
4



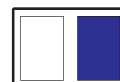
A

B





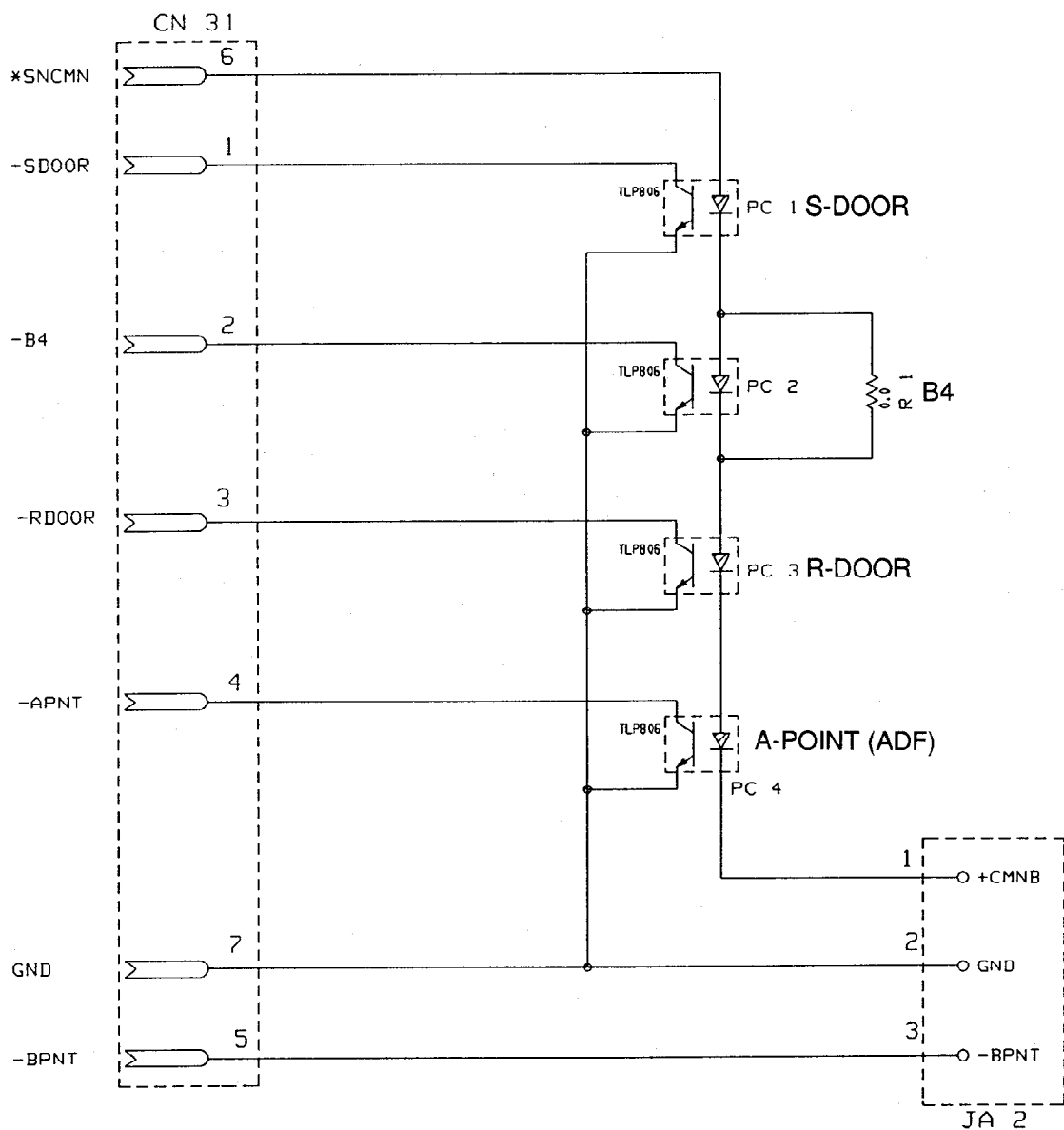
Model	Drawing Name
UF-305 UF-315 PX-305	CCD PC Board <DZYNA1428>



B

C

DZYNA1433 (SEN)



Model	Drawing Name
UF-305 UF-315 PX-305	SEN <DZYNA 1433>

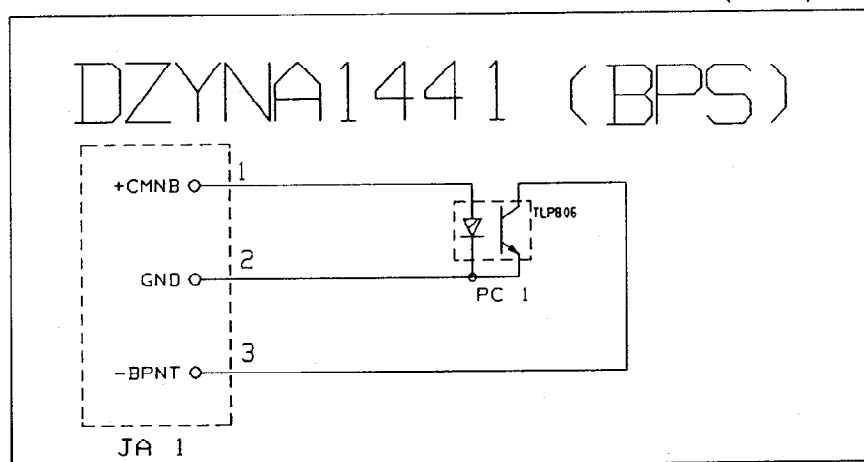
B

C

B

C

B-Point (Read point)

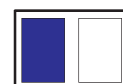
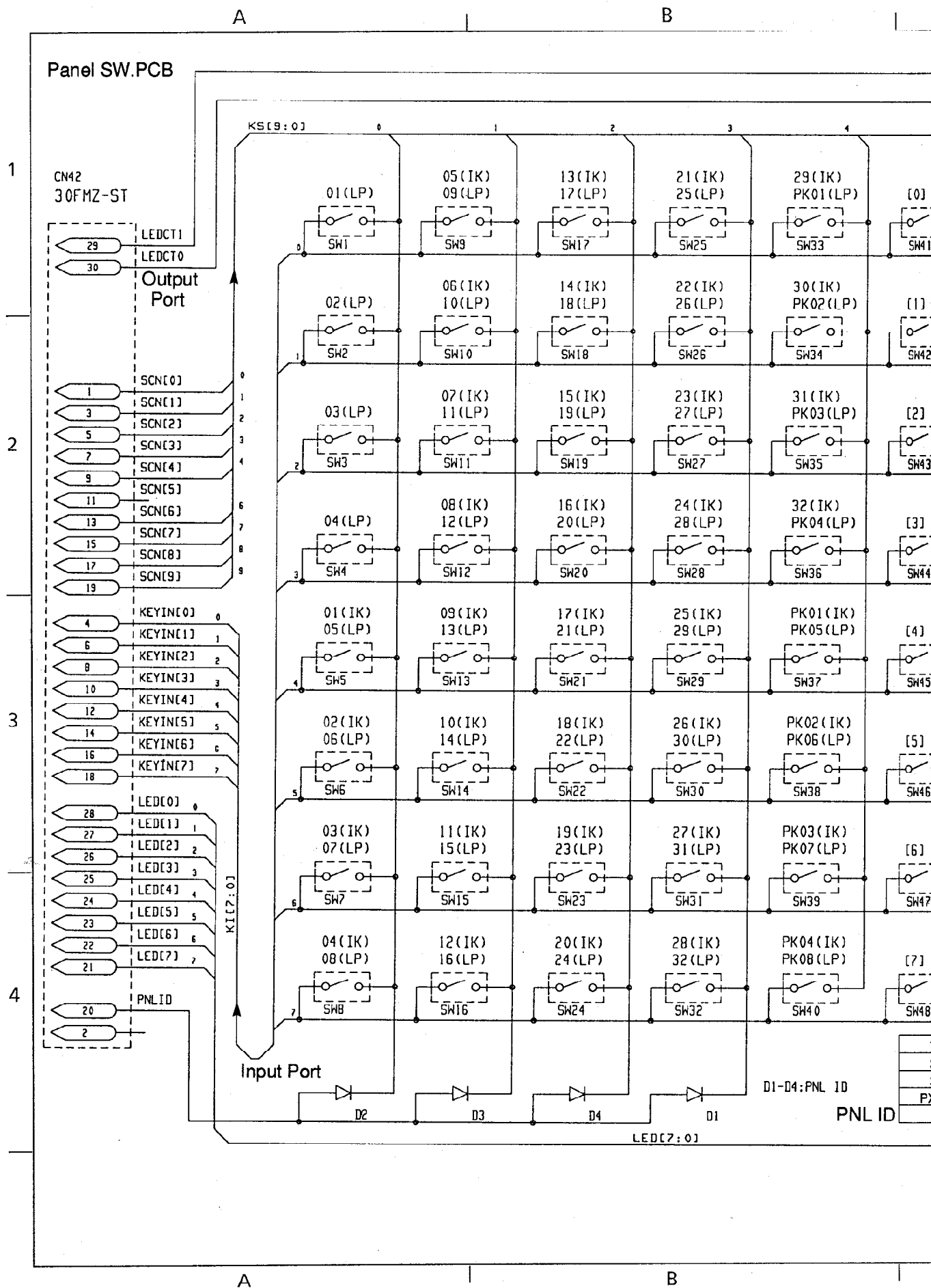


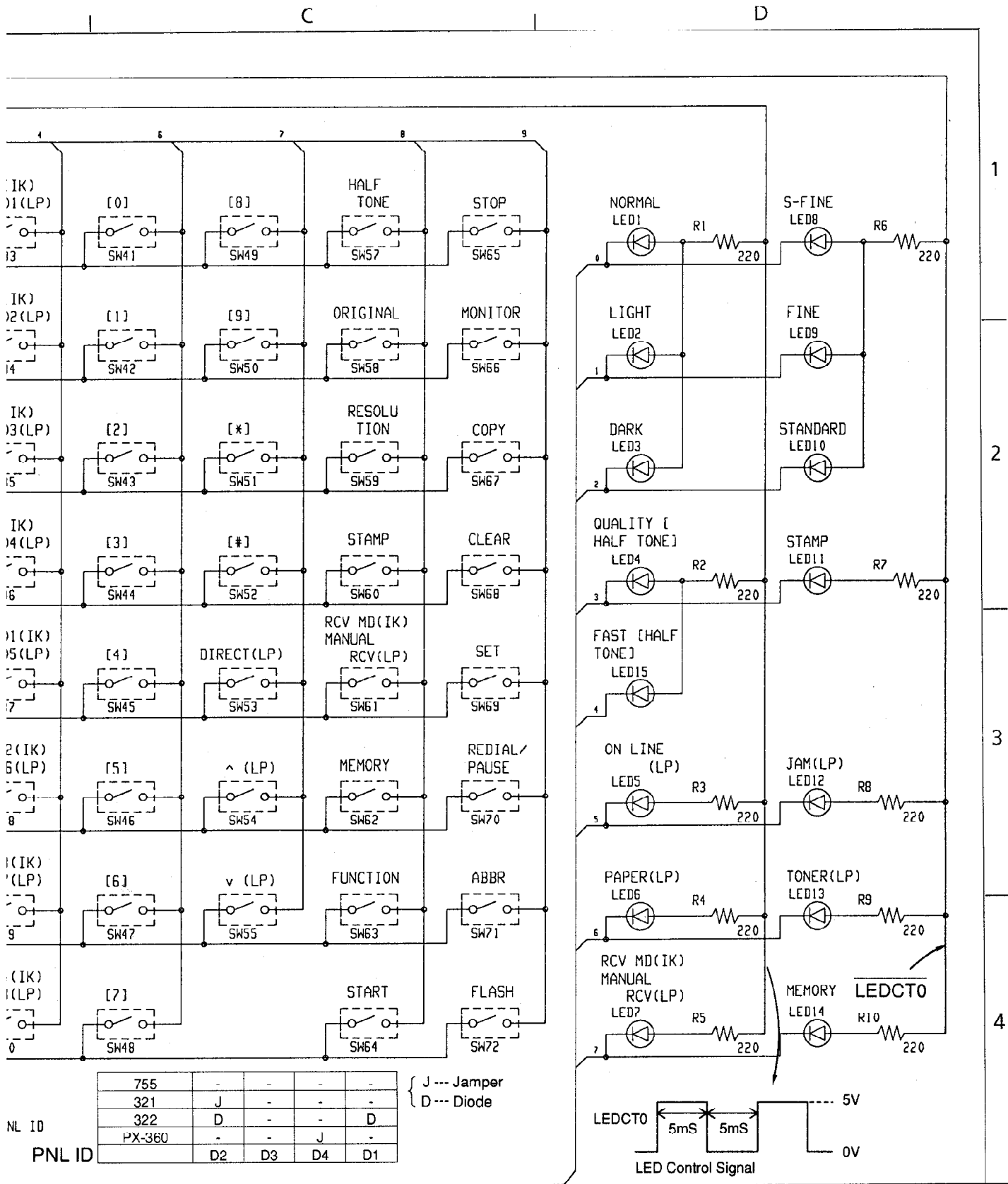
Model	Drawing Name
UF-305 UF-315 PX-305	BPS <DZYNA 1441>

D

B

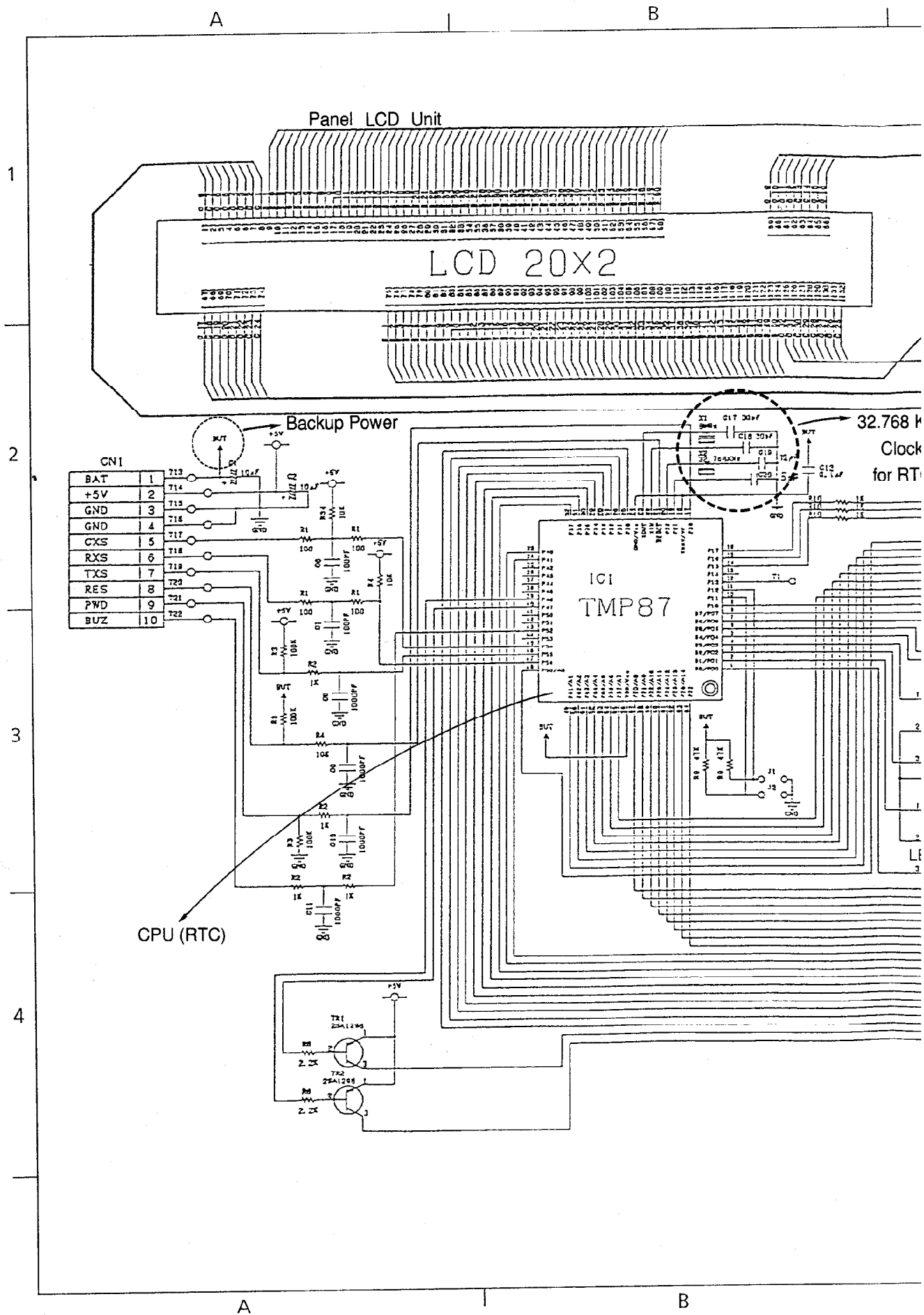
C

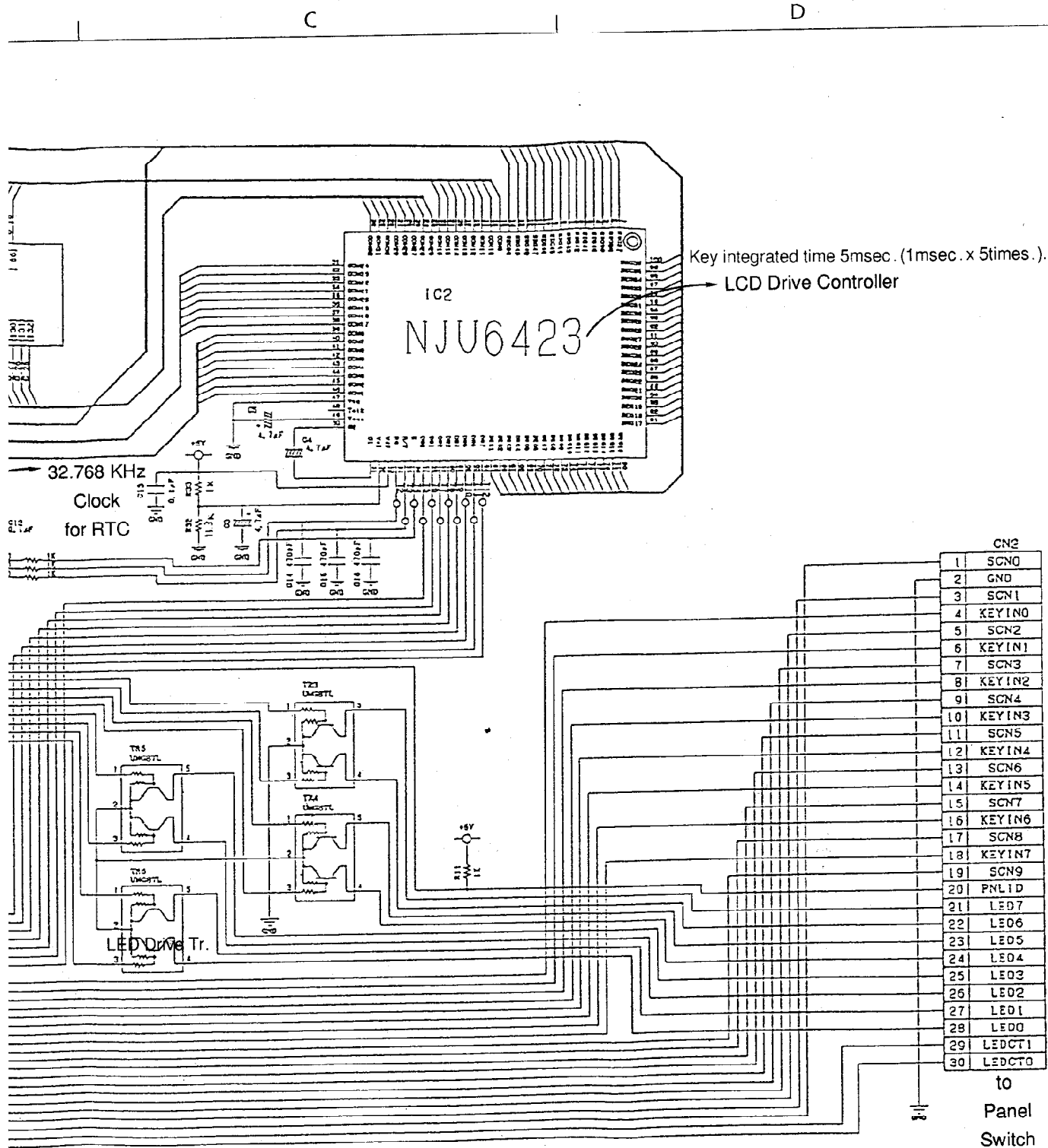




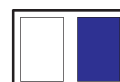
Model	Drawing Name
UF-305 UF-315 PX-305	PNL 2 <DZYNA 1443>

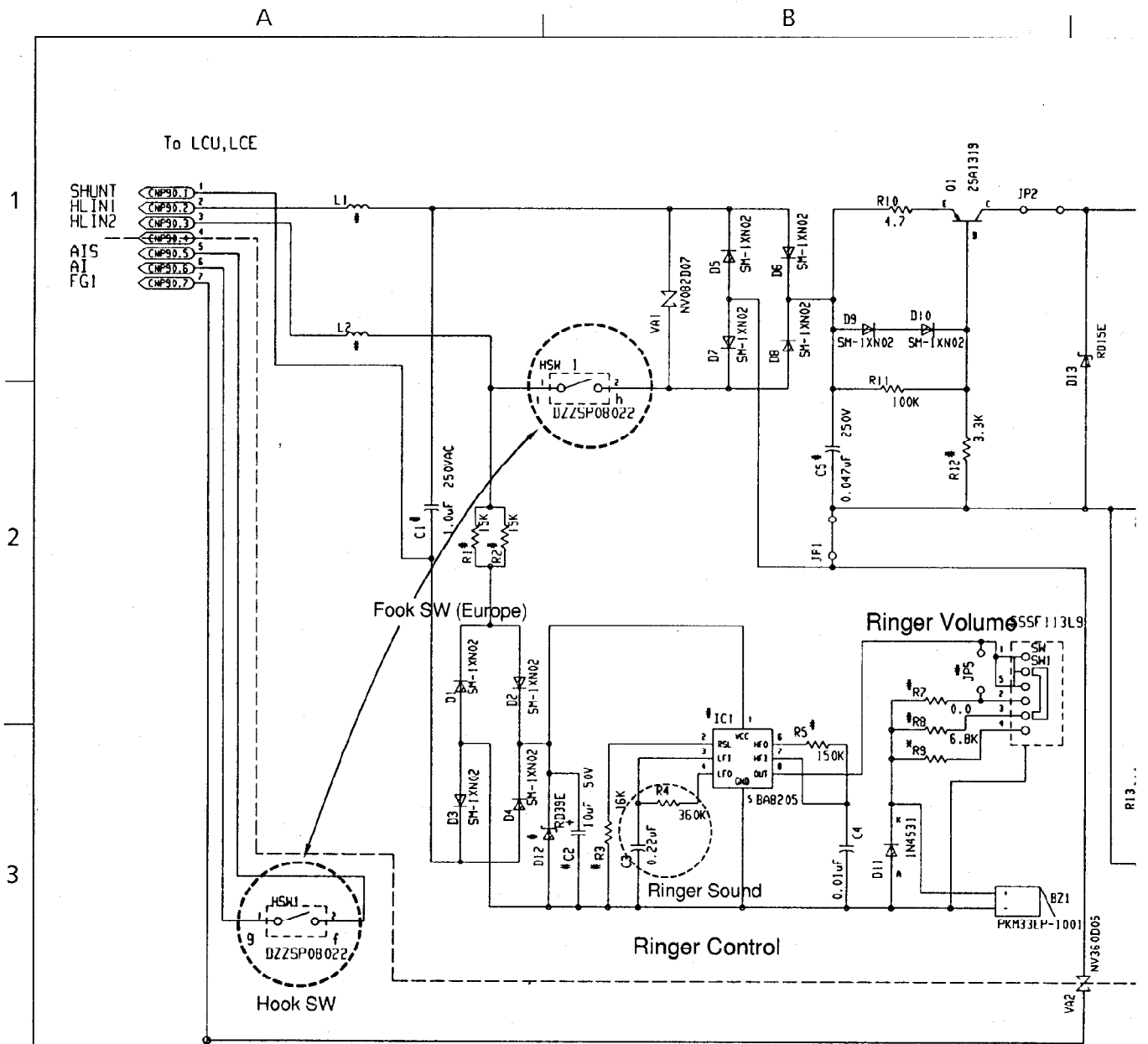






Model	Name
UF-305 UF-315 PX-305	Display PC Board (LD57A3A41A)





HS EARTH PLATE

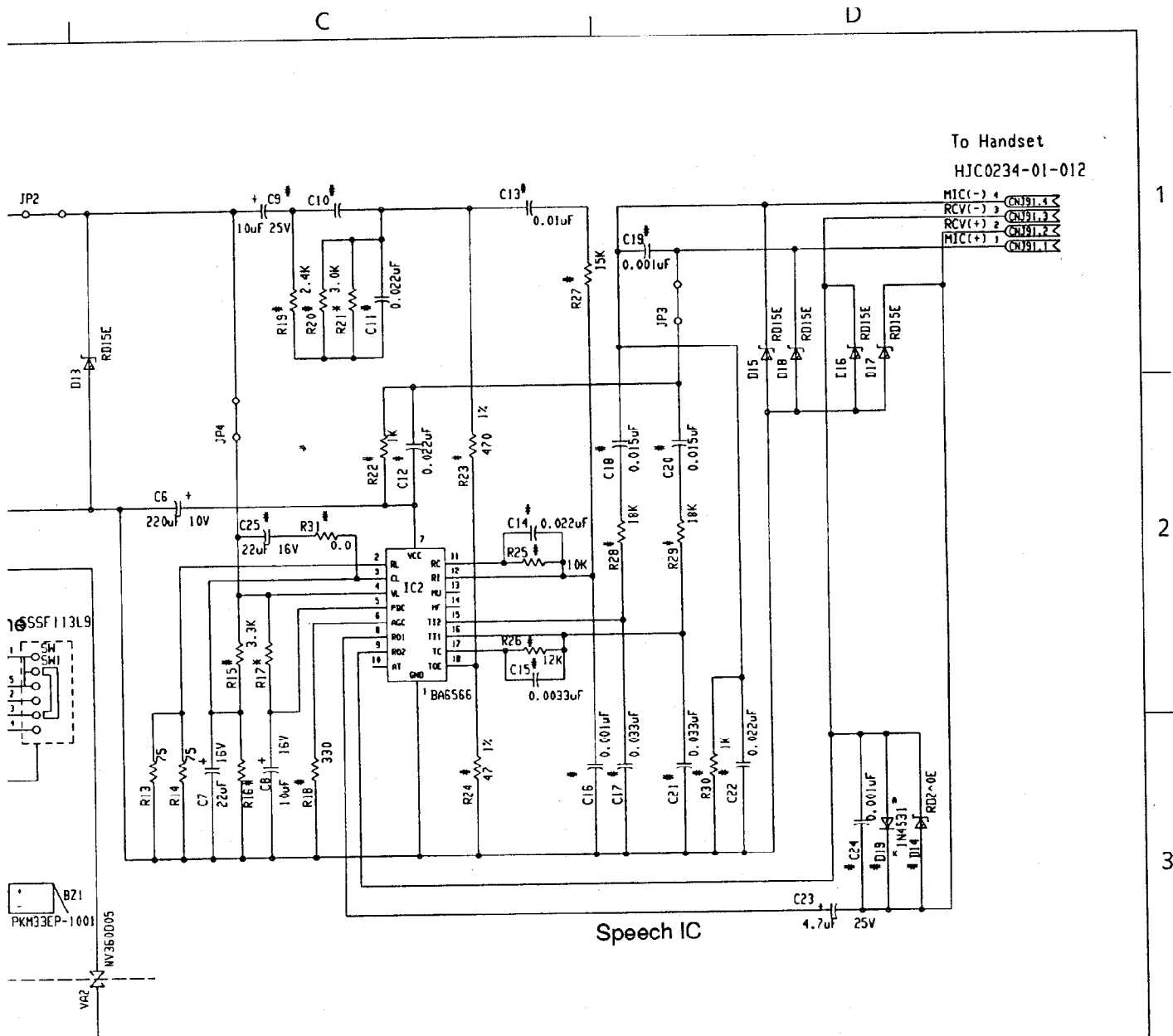
Object	Nation	CNP90
UF-321-322, PX-360		DF1B-7P-2.5DS22

FACTORY 5





Marking
Handset

SW1 Cont

Factory 5



FACTORY SETTING OF SW1

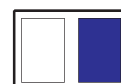
Marking on Handset Cradle			
SW1 Contact No.	2	3	4
Factory Setting			

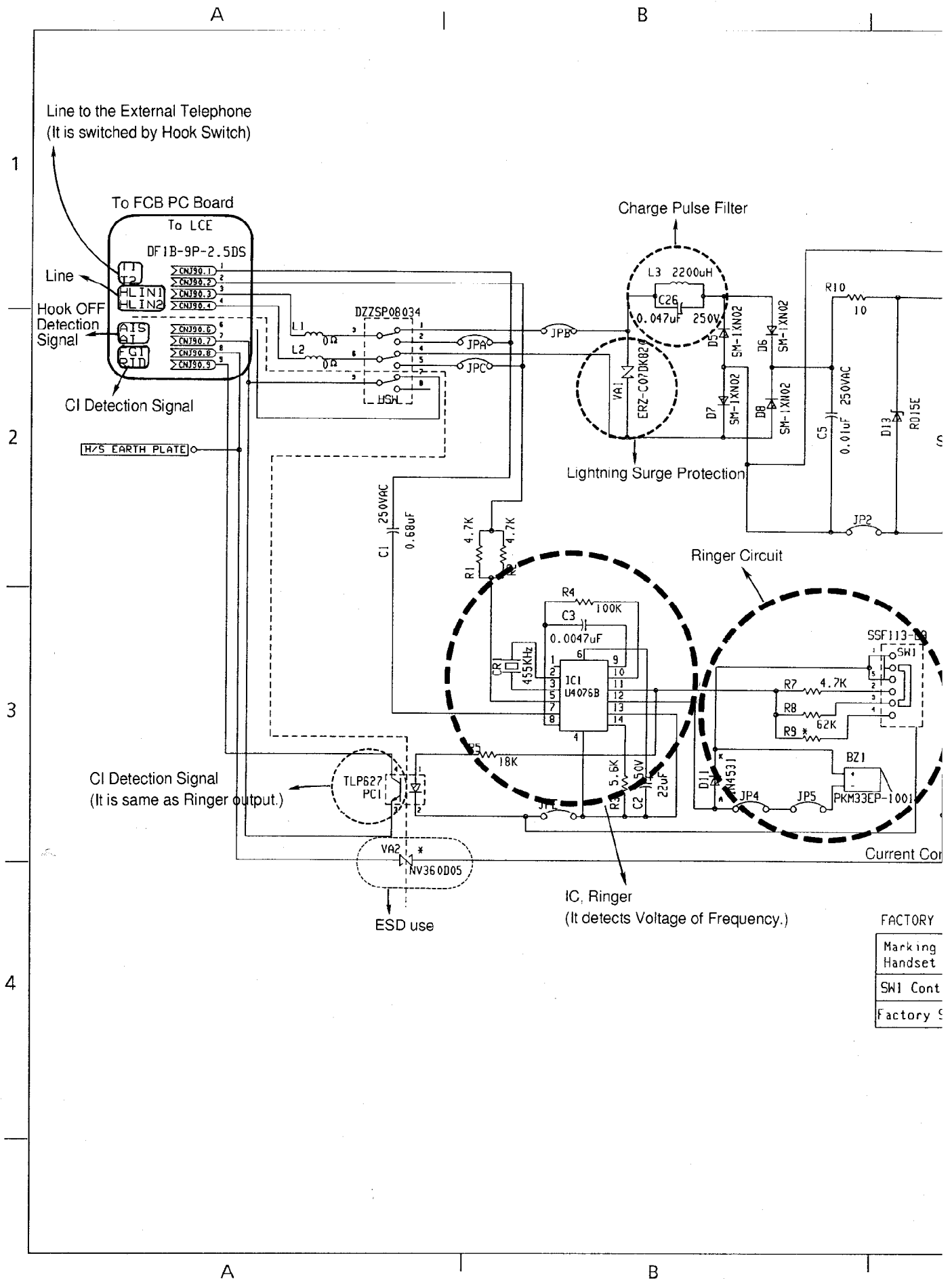
* : Not Mounted

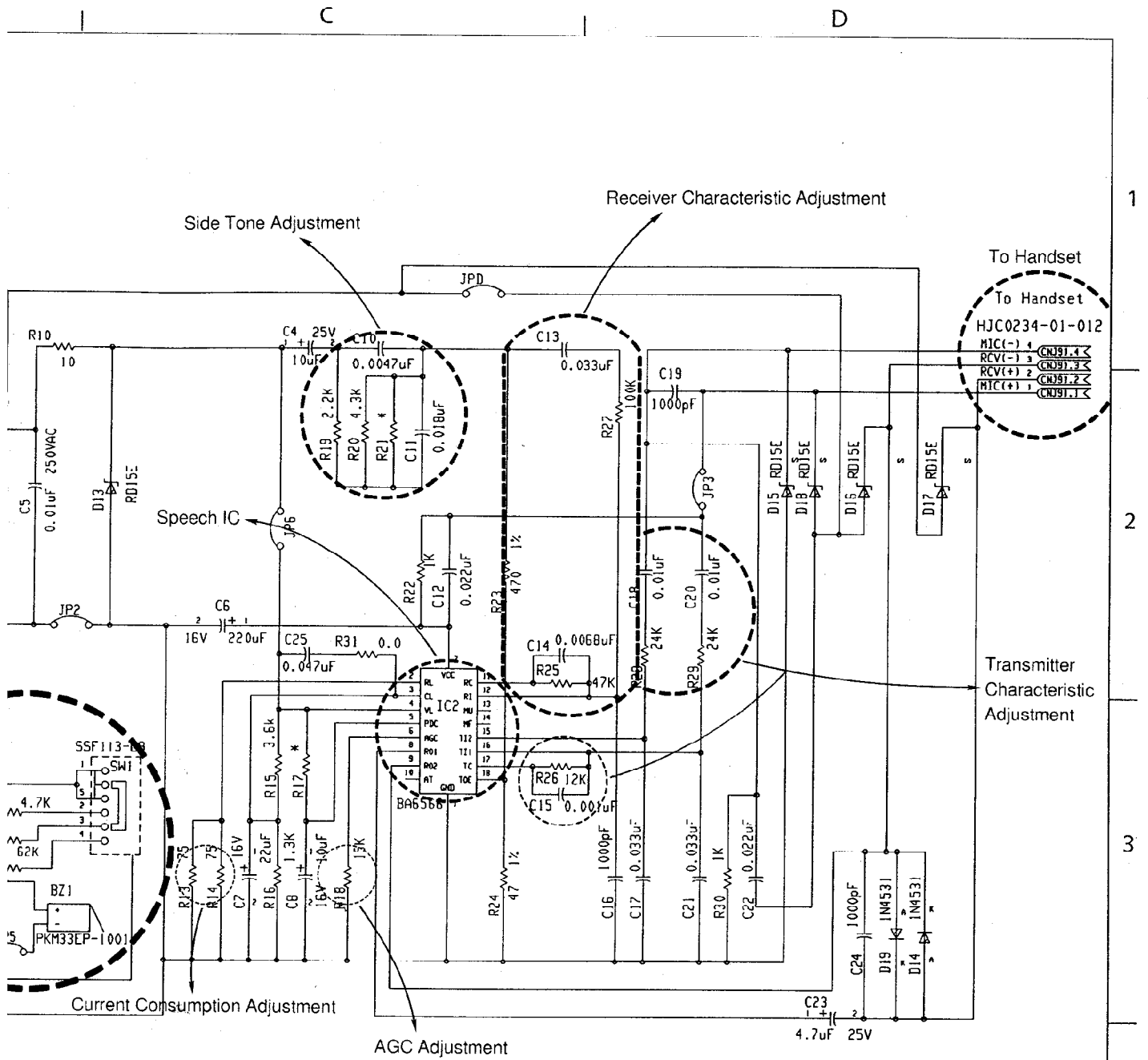
: Refers to attached list

All resistors without W are 1/4W, ±5%

Model	Drawing Name
UF-305 UF-315	SRU PC Board <DZYNA 1448>







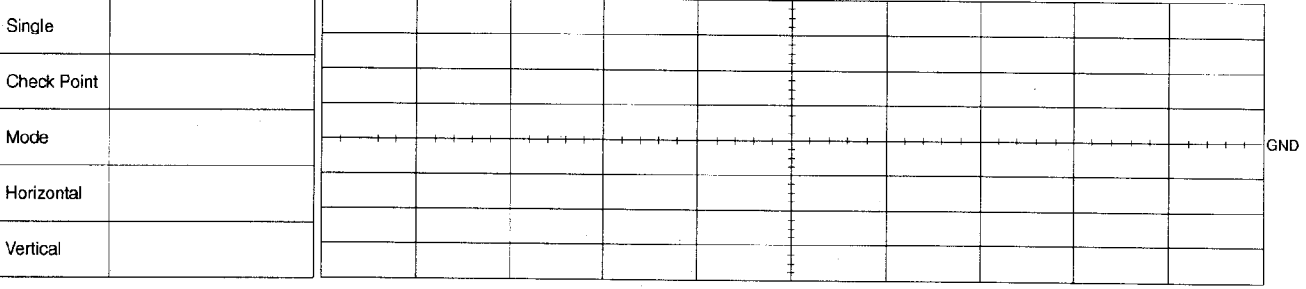
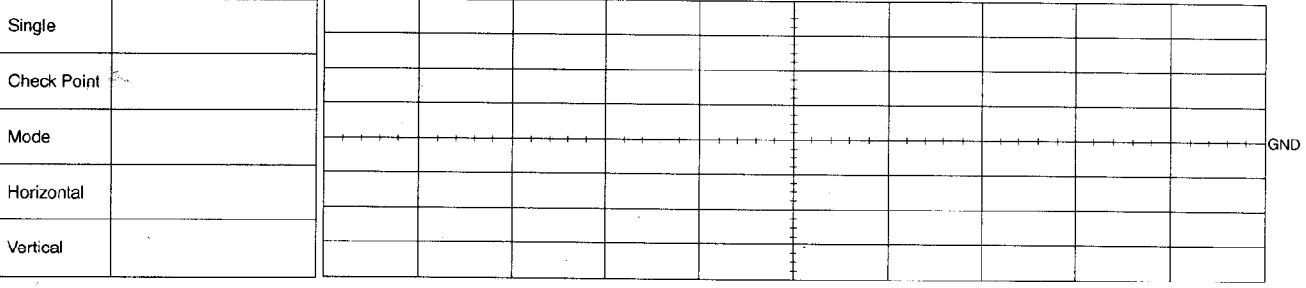
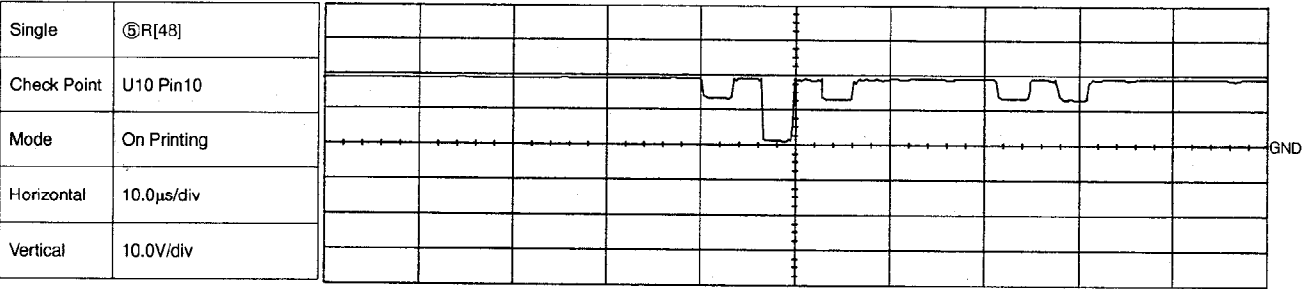
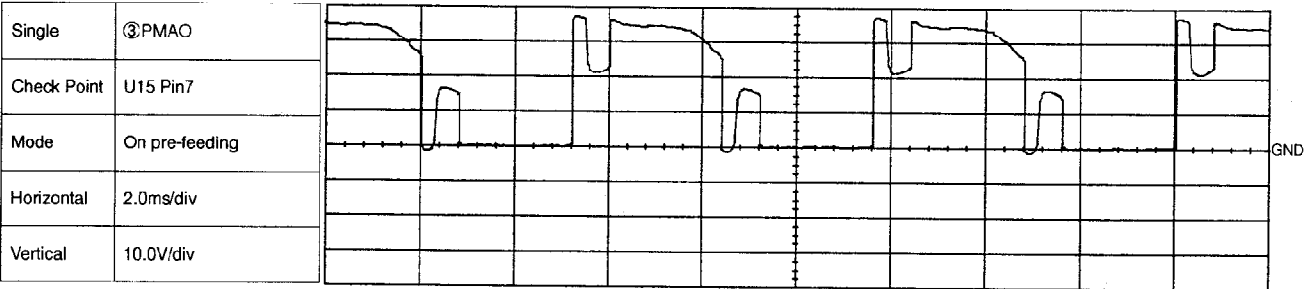
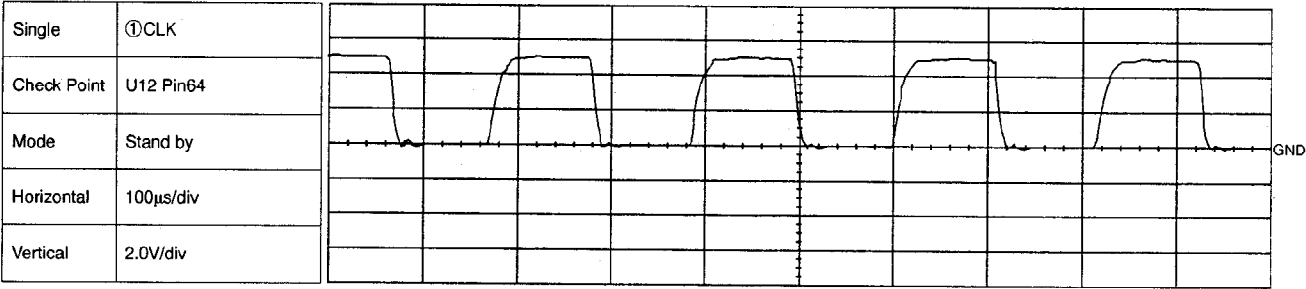
FACTORY SETTING OF SW1

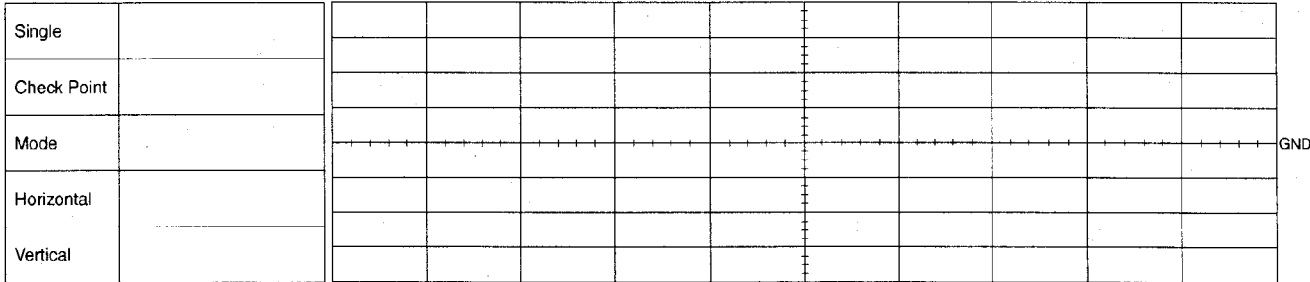
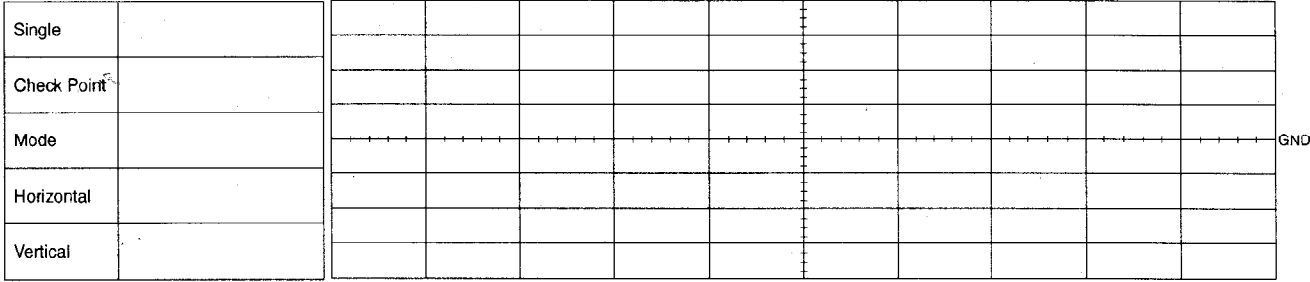
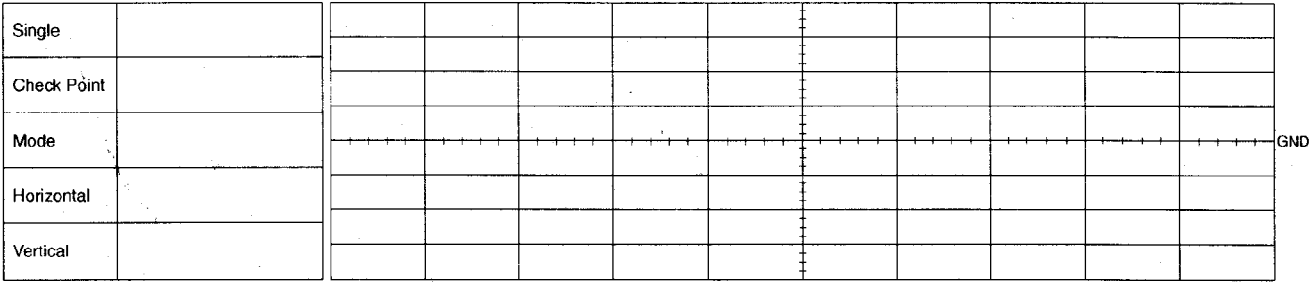
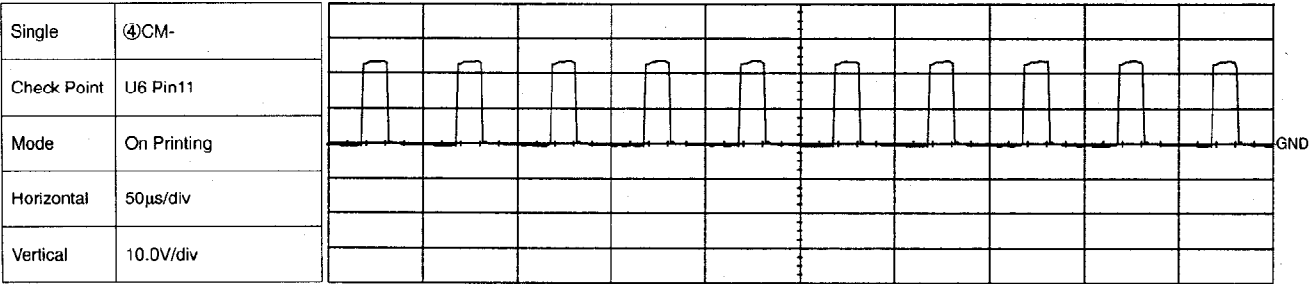
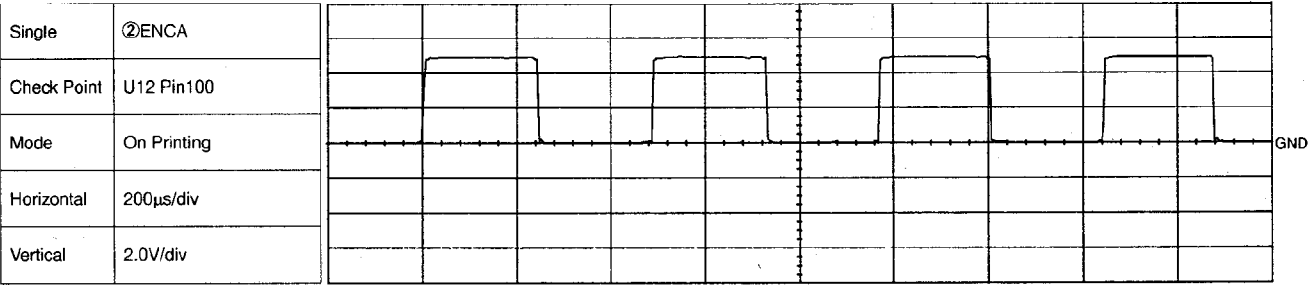
Marking on Handset Cradle	2	3	4
SW1 Contact No.	2	3	4
Factory Setting		○	

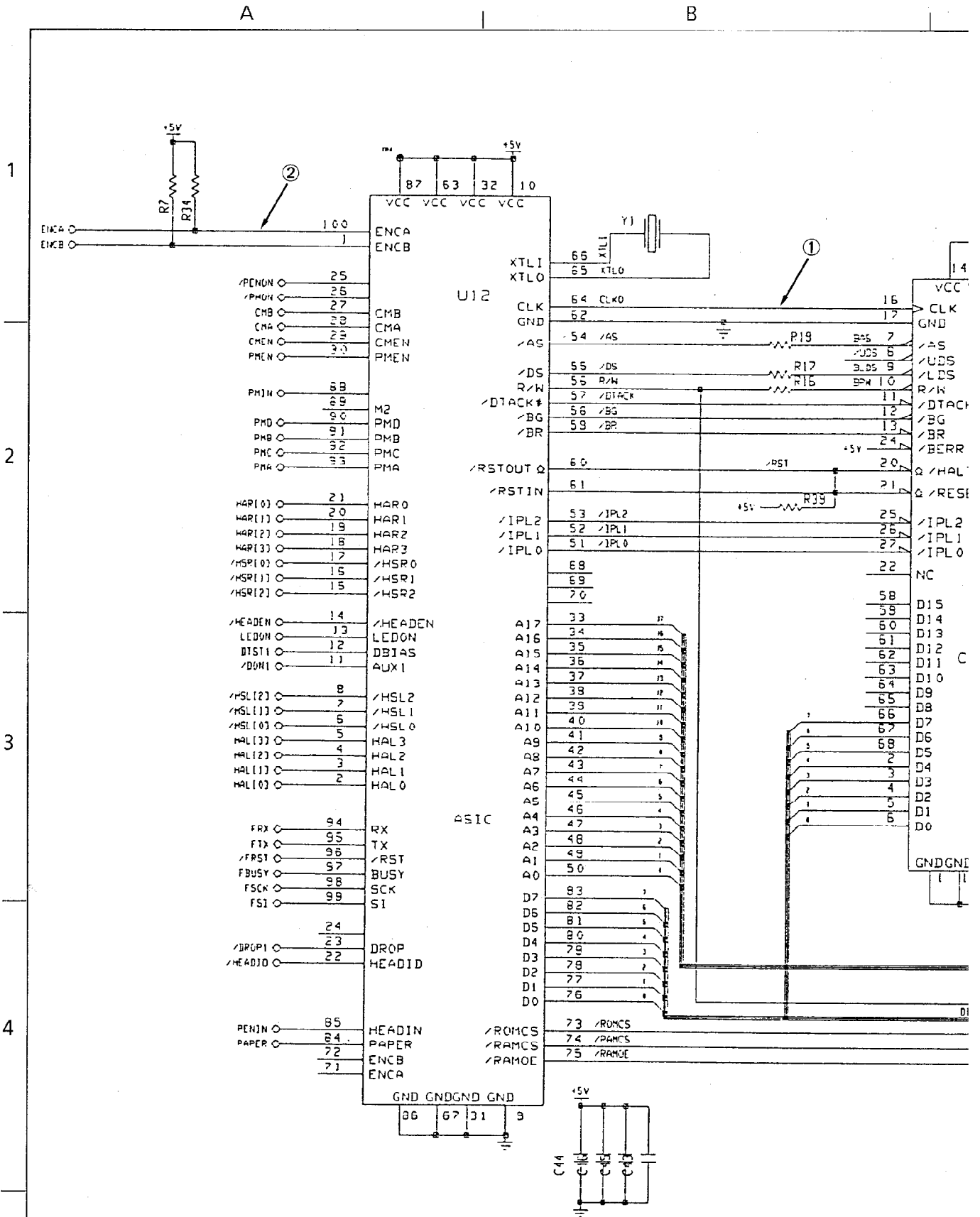
* : Not Mounted

All resistors without W marking are 1/4W, +5%.
All capacitor with rating are 50V.

Model	Drawing Name
UF-305 UF-315	SRG PC Board <DZYNA 1437>

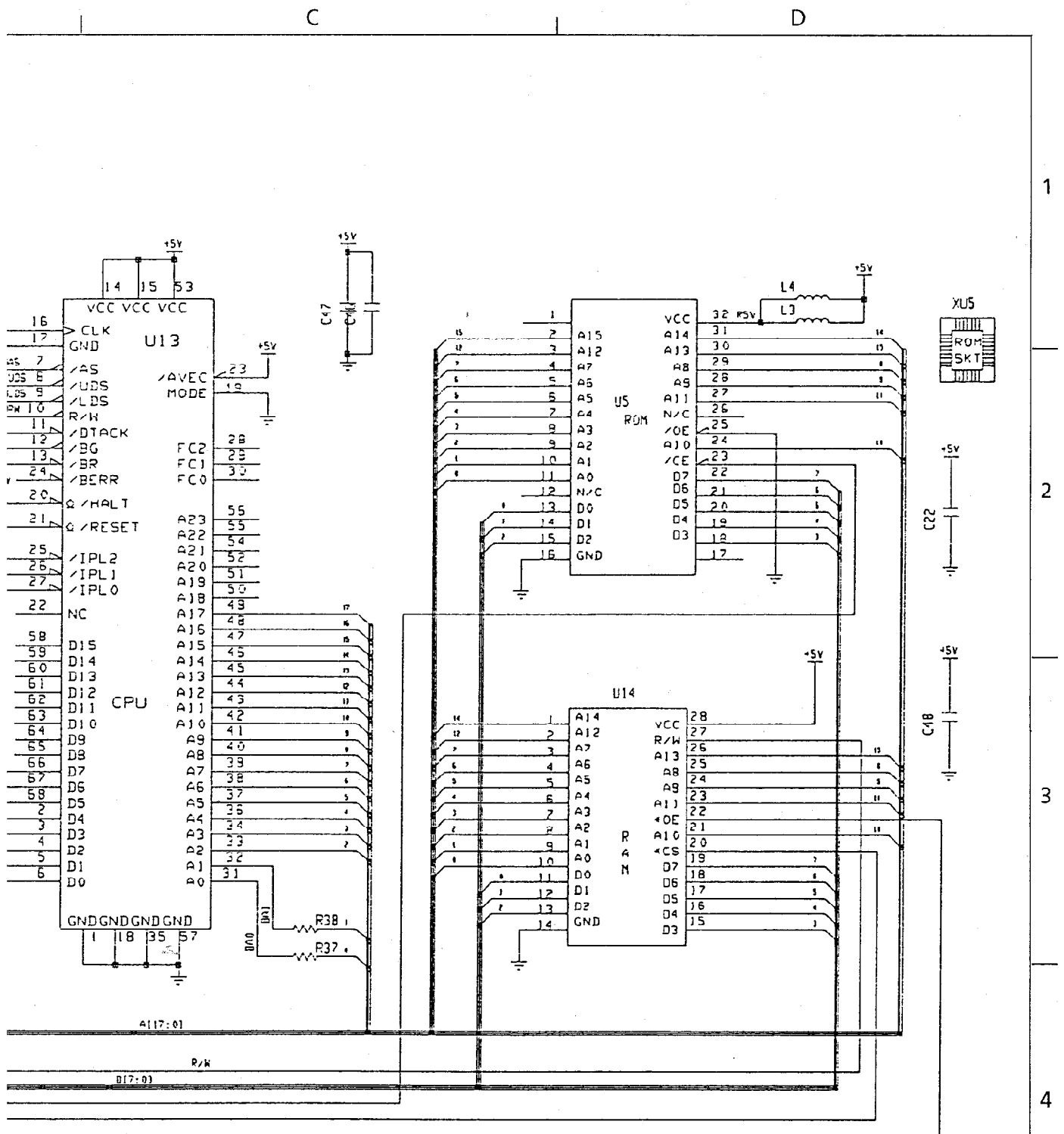






Measurement Mode: Stand-by Mode, On printing, On pre-feeding





Model	Drawing Name
UF-305 UF-315 PX-305	GPM Circuit Diagram (1)



A

B

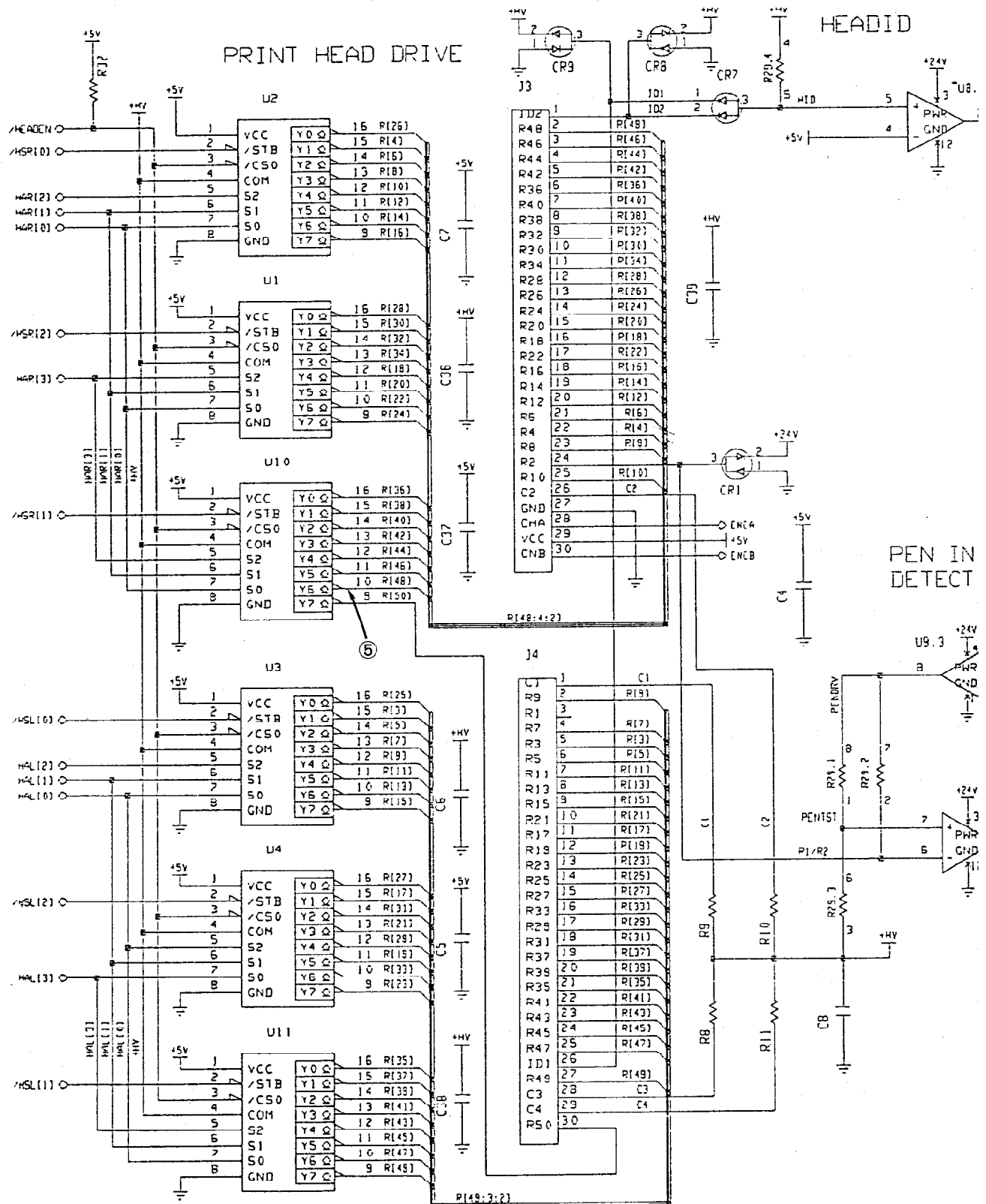
1

2

3

4

PRINT HEAD DRIVE



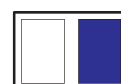
Measurement Mode: Stand-by Mode, On printing, On pre-feeding

A

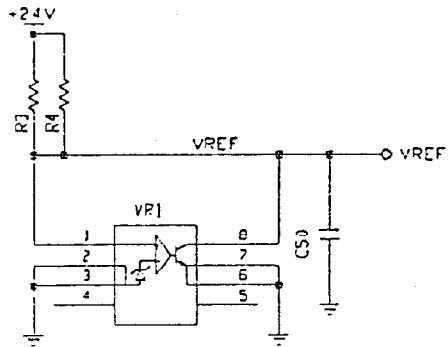
B



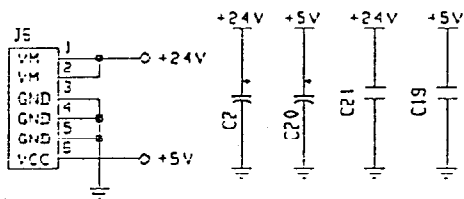
Model	Drawing Name
UF-305 UF-315 PX-305	GPM Circuit Diagram (2)



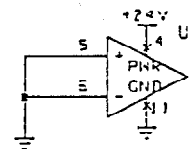
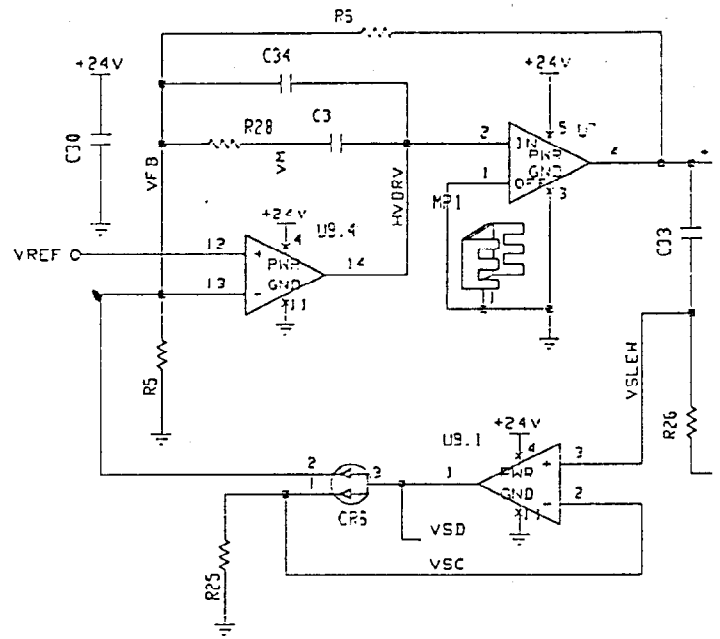
VOLTAGE REFERENCE



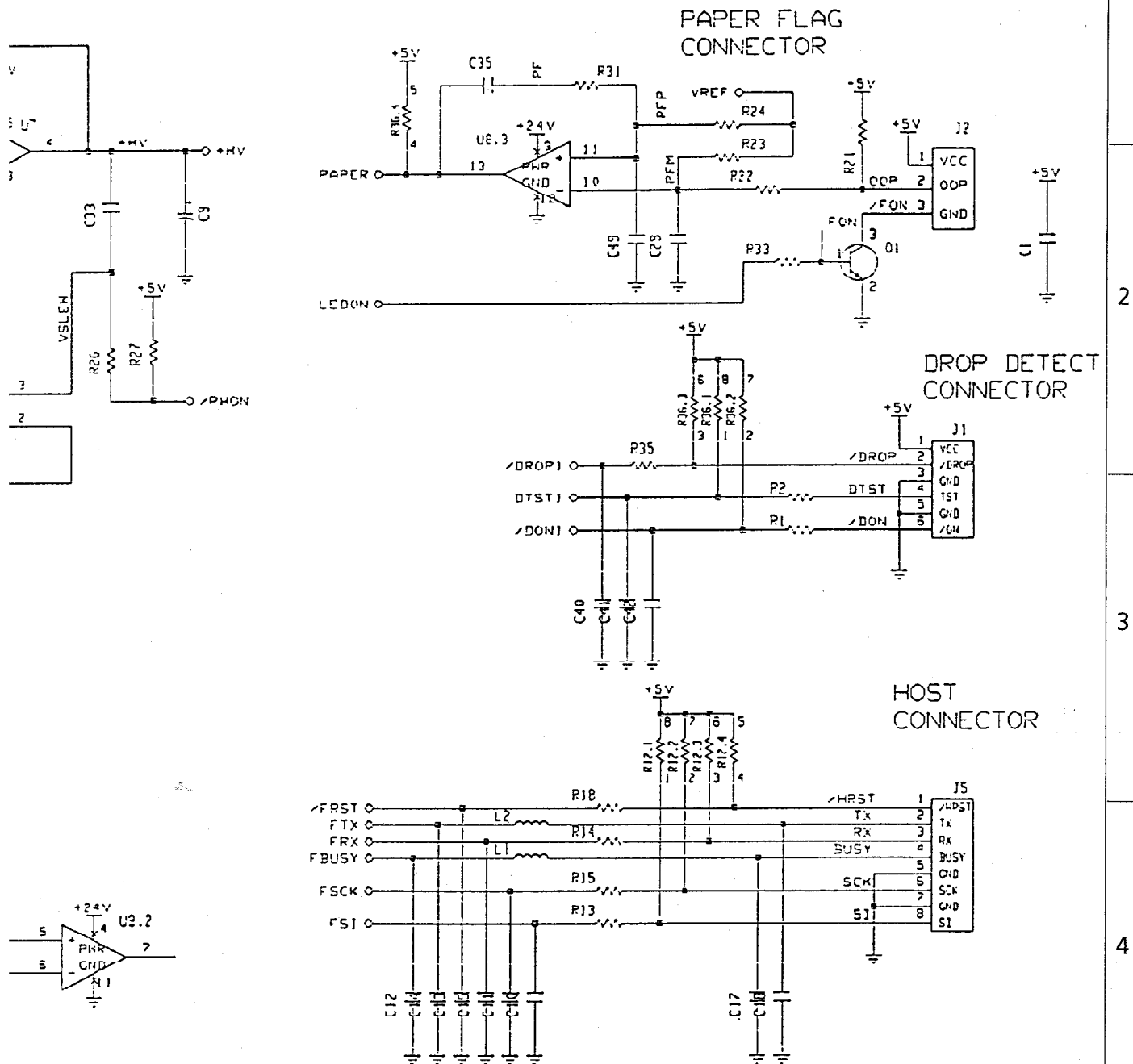
POWER CONNECTOR



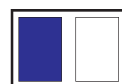
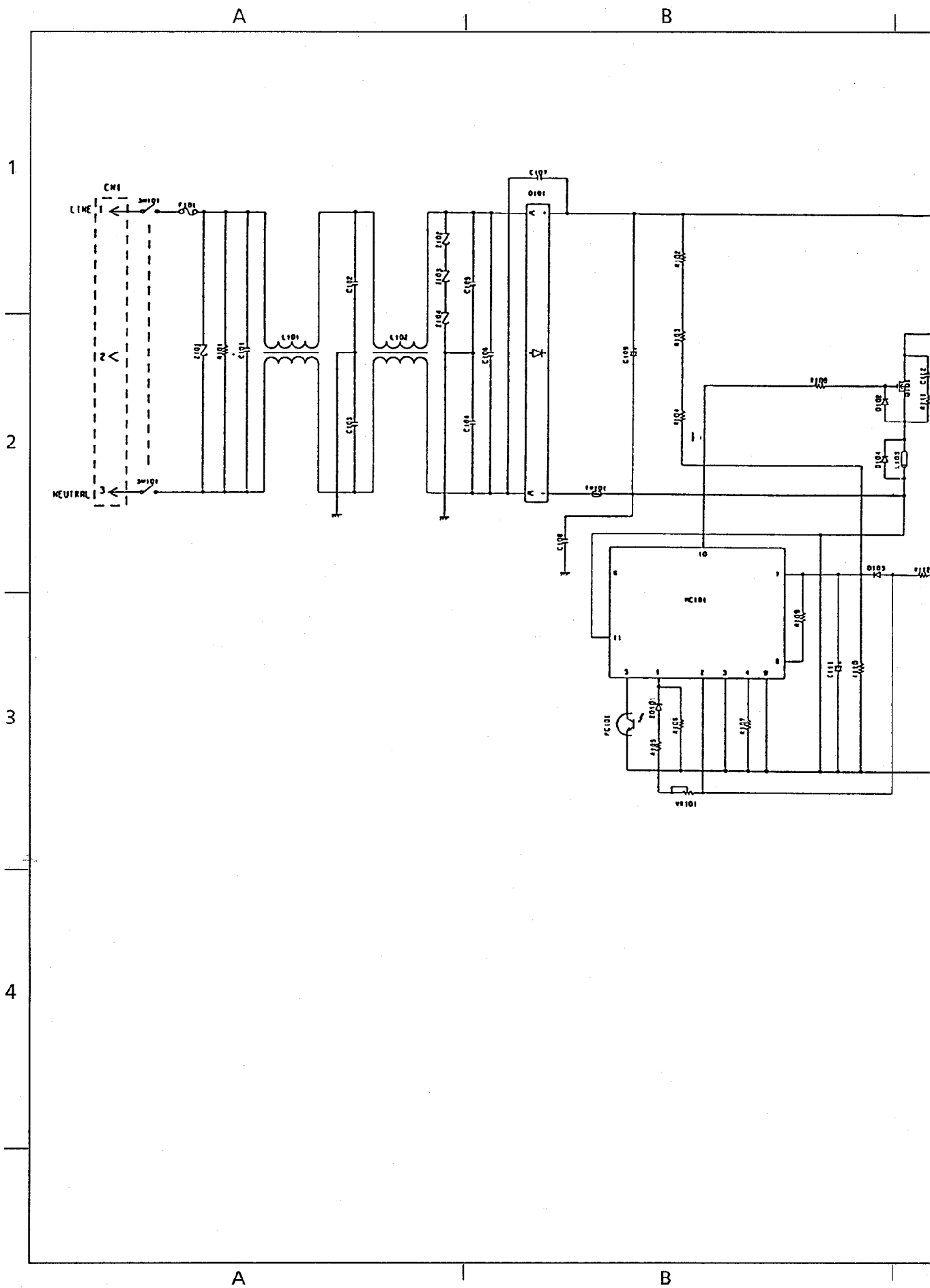
PRINT HEAD SUPPLY

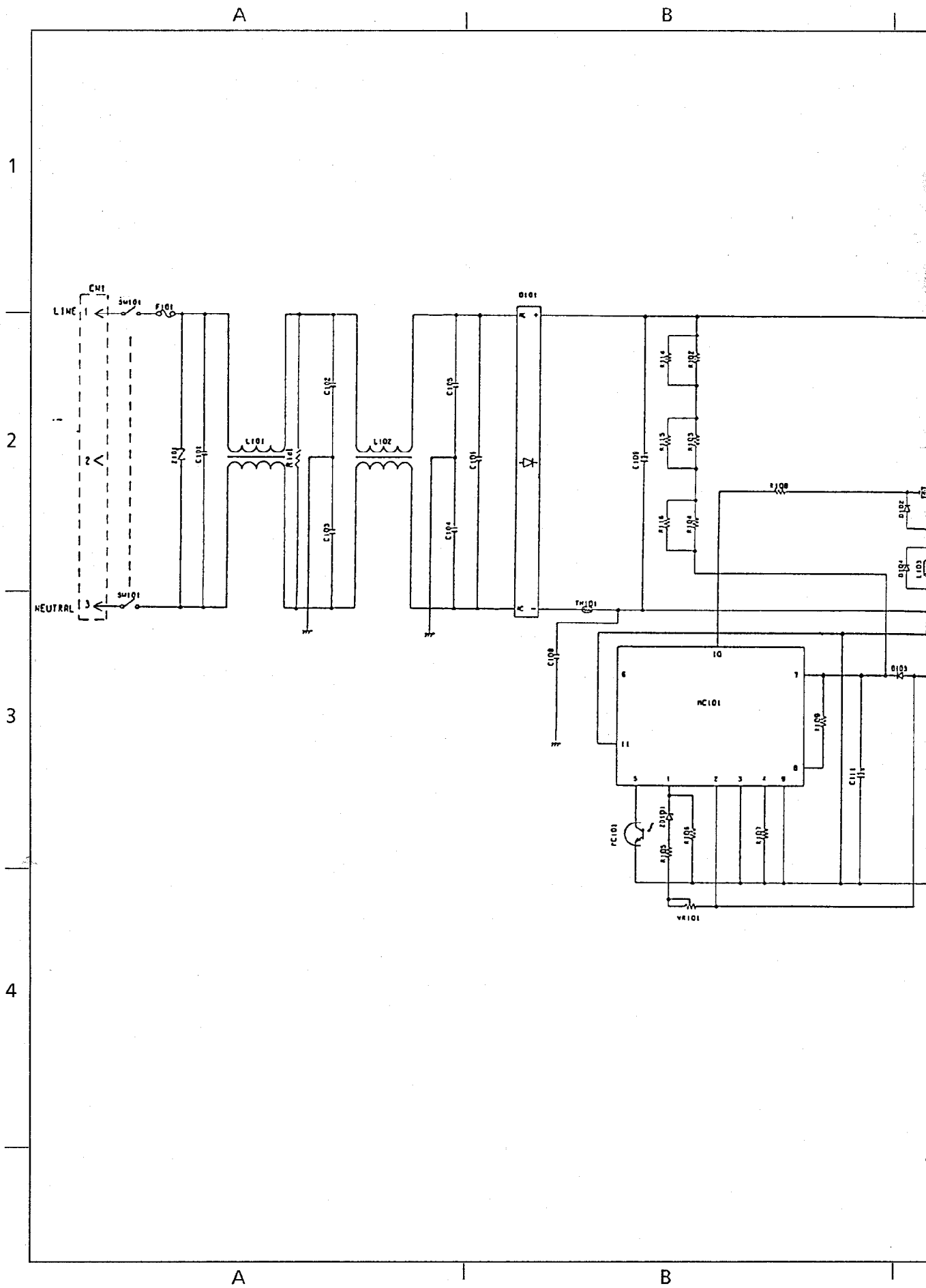


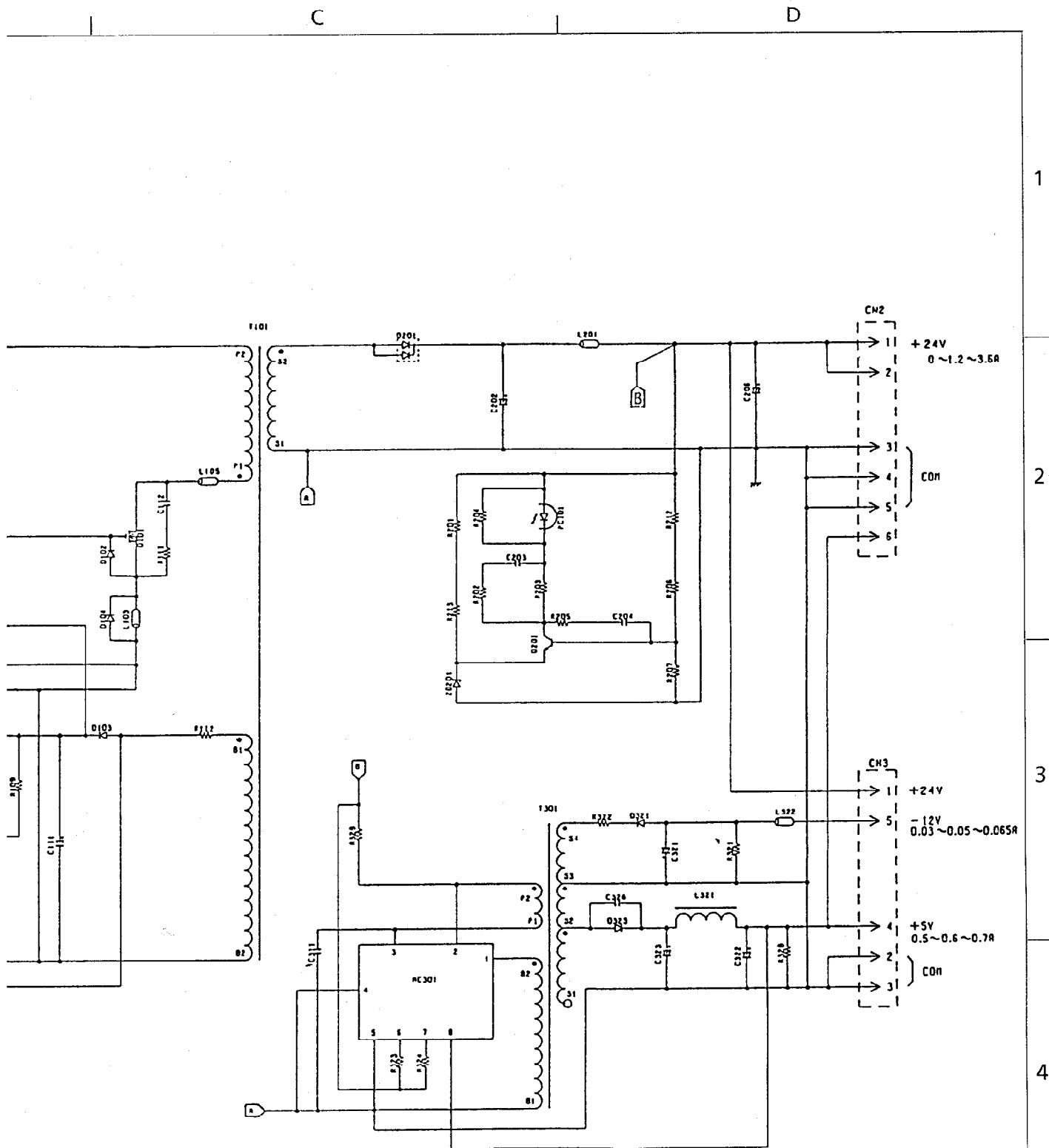
Measurement Mode: Stand-by Mode, On printing, On pre-feeding



Model	Drawing Name
UF-305 UF-315 PX-305	GPM Circuit Diagram (3)

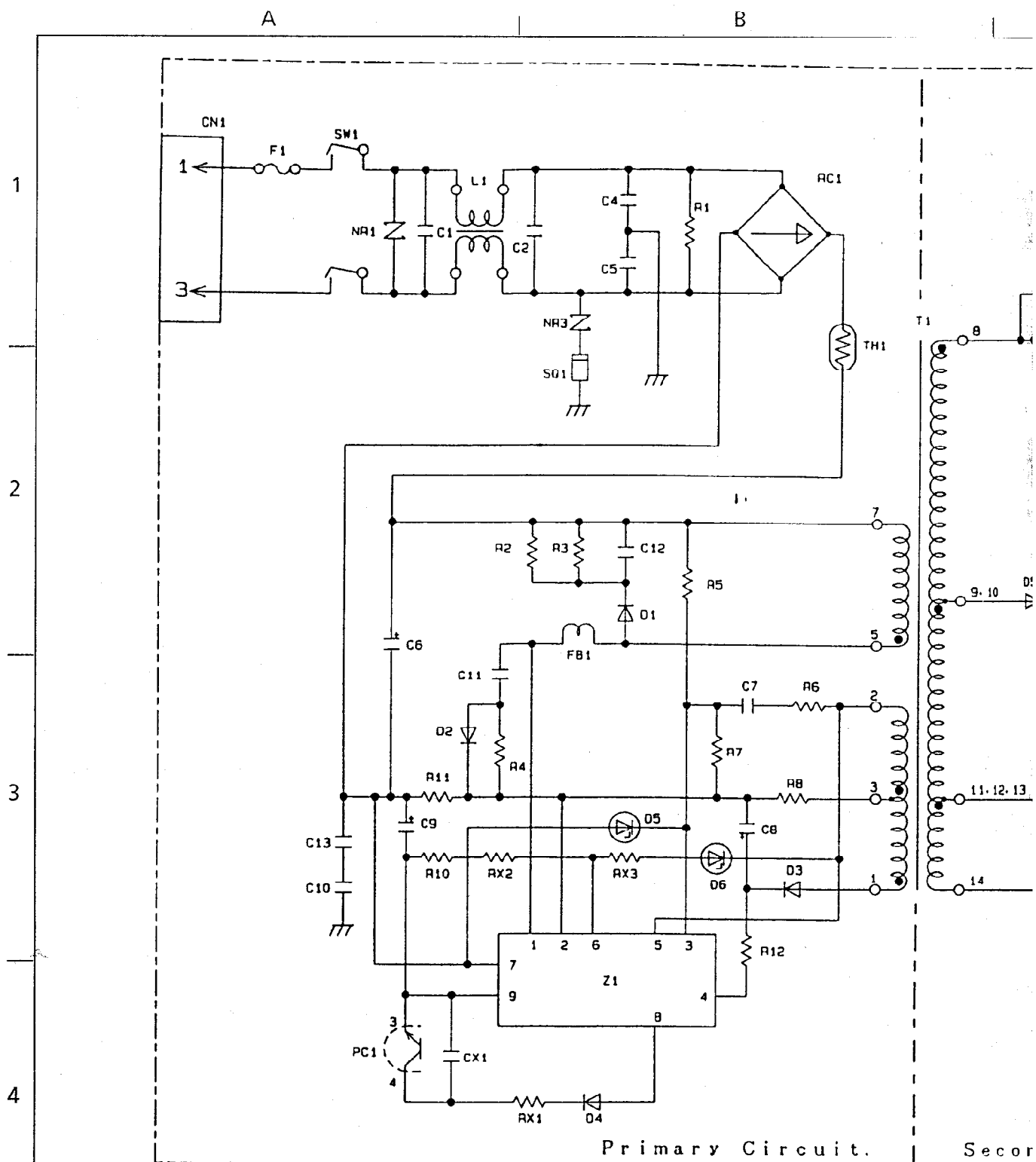






Model	Drawing Name
UF-305 UF-315	Power Supply Unit <ETXA39C7E : 200V>



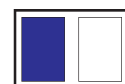


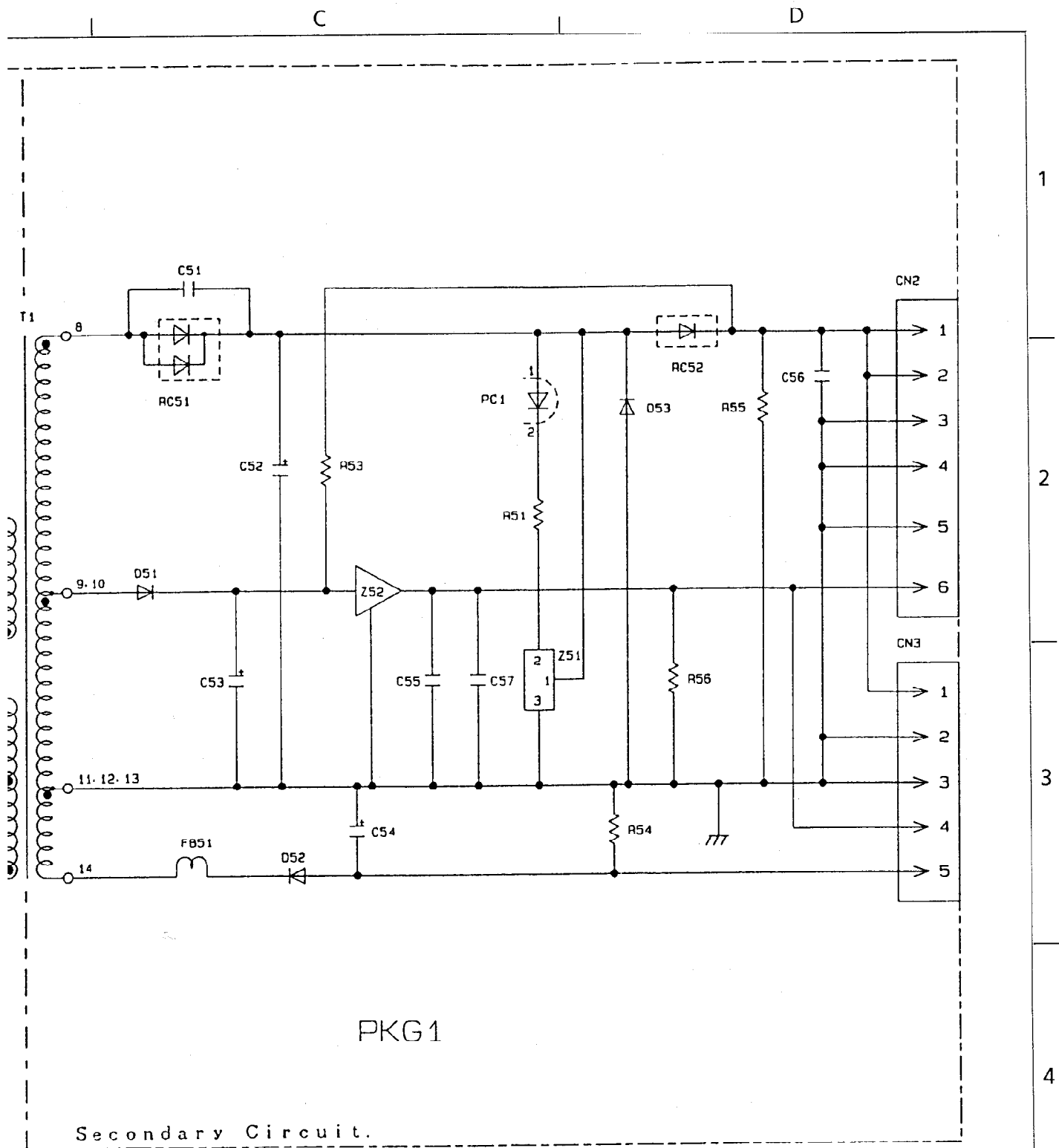
Primary AC Side

Purple Hot Line
Orange Neutral Line
Green Ground Line

Primary DC Side

Blue 0 ~ 50Vrms (0 ~ 70.7V_i)
Yellow 51 ~ 125Vrms (72.1 ~ 176.8V_i)
Red 126 ~ 250Vrms (178.2 ~ 353.5V_i)
Brown 251 ~ 600Vrms (354.9 ~ 848.8V_i)

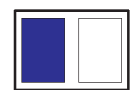
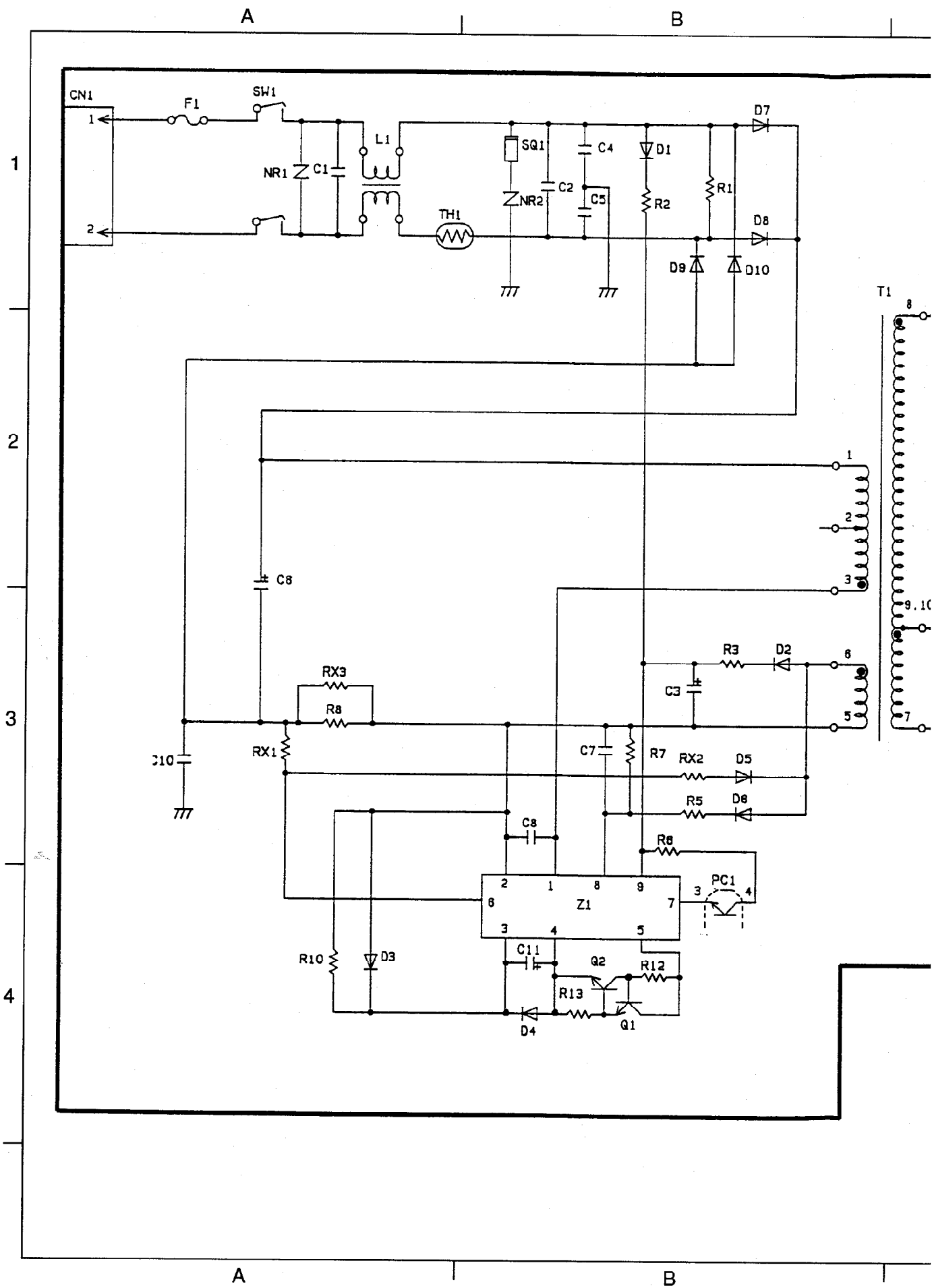


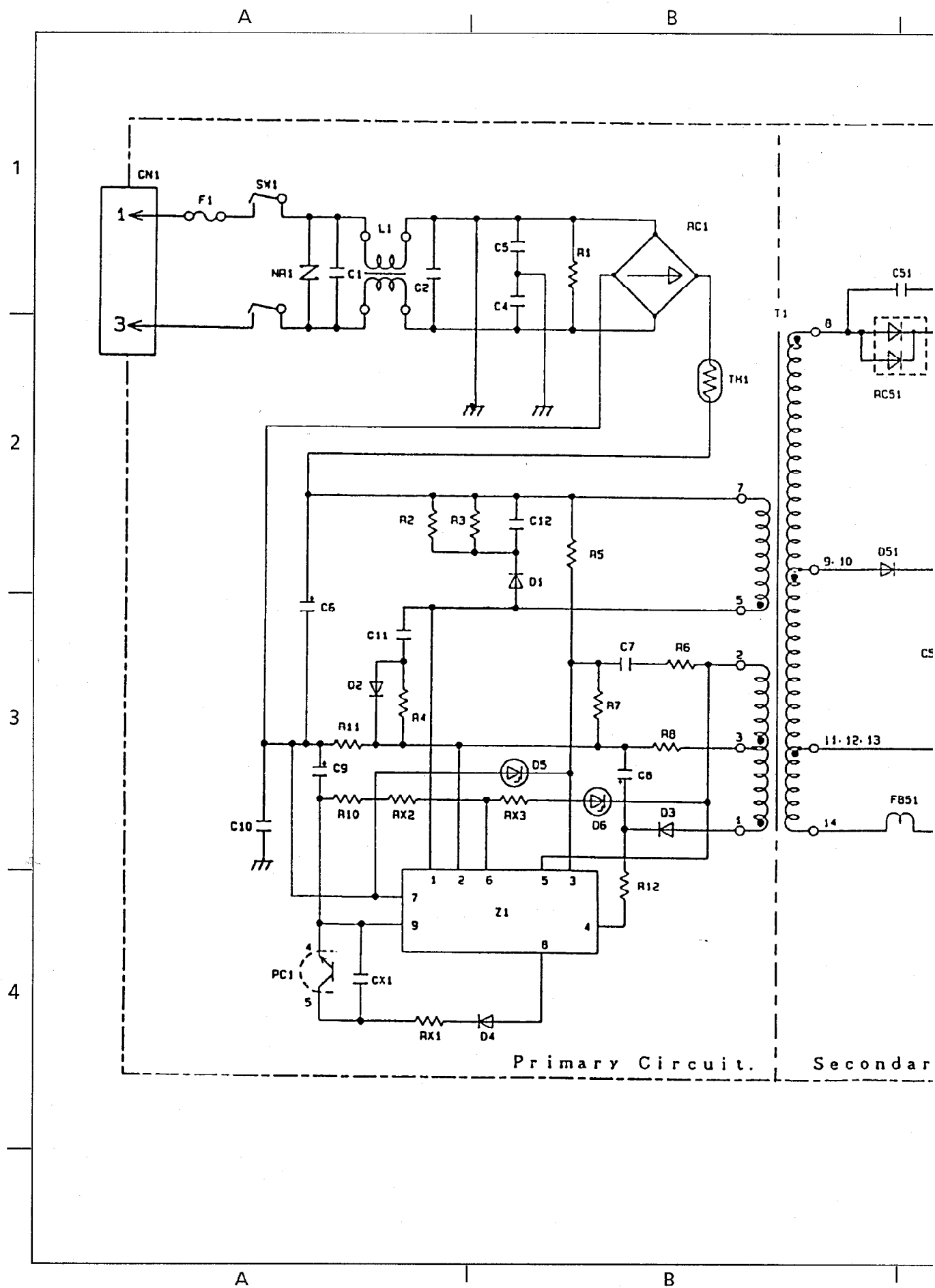


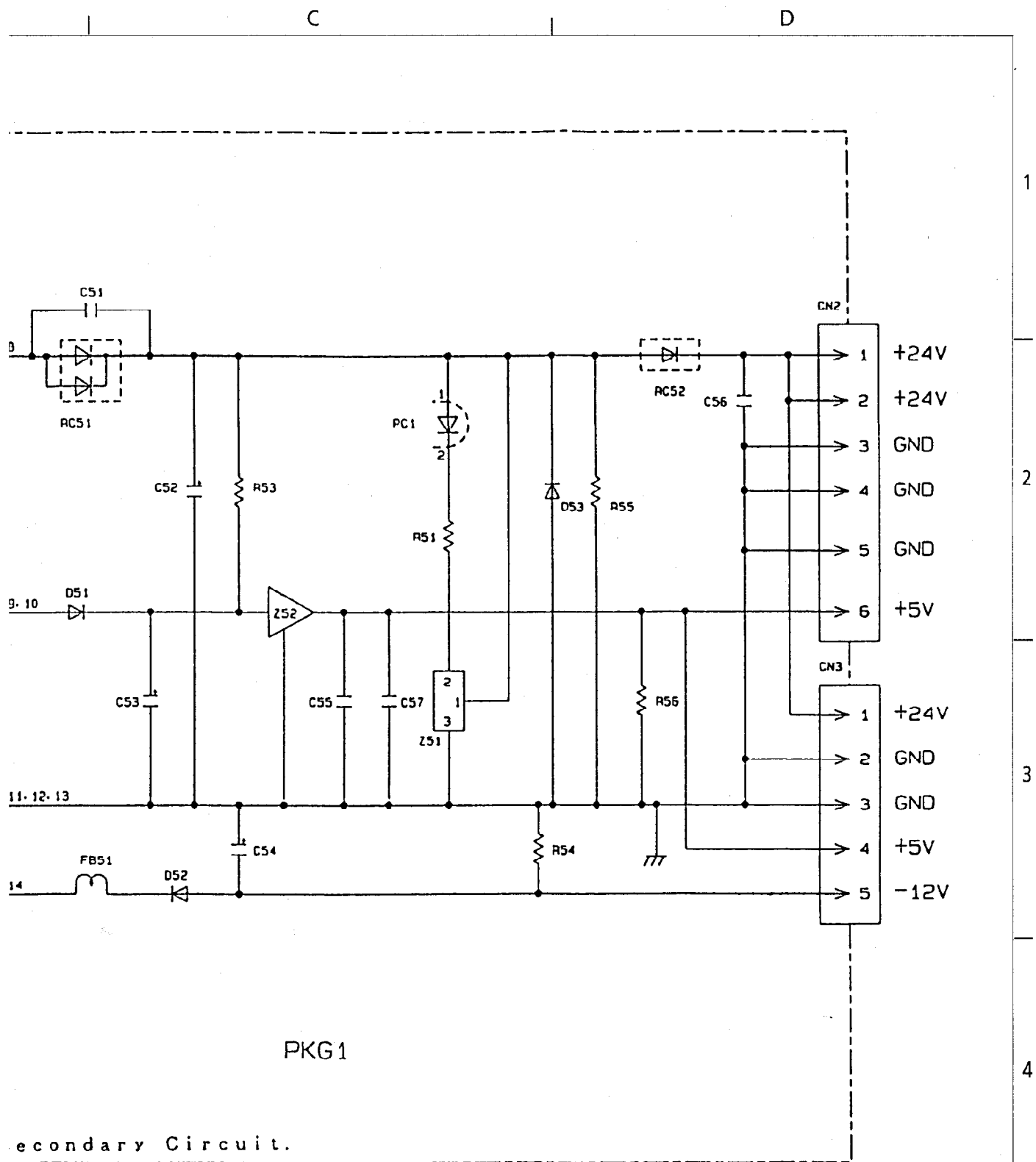
1. $\sim 70.7 \text{ V}_p$
 2. $1 \sim 176.8 \text{ V}_p$
 3. $2 \sim 353.5 \text{ V}_p$
 4. $9 \sim 848.8 \text{ V}_p$

Model	Drawing Name
UF-305 UF-315 PX-305	Power Supply Unit <DS043L : 100V>

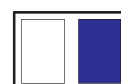








Model	Drawing Name
UF-305 UF-315	Power Supply Unit <DS043H : 200V>



FCB3 (DZYNA1525) (1/9)

Country Code List

Country Code	Country	Country Code	Country
[B]	UF-305 / PX-305 100V Version	[E]	UF-315 100V Version
[K]	UF-305 200V Version	[L]	UF-315 200V Version

Ref. No.	Part No.	Description	[B]	[E]	[K]	[L]
IC1	BA4558BF-T1	OP-Amp	1	1	1	1
	NJM4558M-T1		1	1	1	1
IC4~5	BA4558BF-T1	OP-Amp	1	1	1	1
	NJM4558M-T1		1	1	1	1
IC3	BU4053BF-T1	Analog SW	1	1	1	1
	BU4053BCF-T1		1	1	1	1
IC22	BU4053BF-T1	Analog SW	1	1	1	1
	BU4053BCF-T1		1	1	1	1
IC13	DZZNS58124	ISA5	1	1	1	1
IC7	KA386D	Power-Amp	1	1	1	1
	NJM386M-T1		1	1	1	1
IC2	MC34083P	Analog IC	1	1	1	1
IC10	TA78L12S	DC/DC Convector	1	1	1	1
	NJM78L12A (T1)		1	1	1	1
IC9	MN86074	FRIP4, 0.5m	1	1	1	1
IC12	R96DFXL	MODEM	1	1	1	1
IC8	PST575CMT	Reset IC	1	1	1	1
IC19	μPD70433	CPU	1	1	1	1
IC18	TC7SU04F	L-MOS IC	1	1	1	1
IC20	LC36256AML-10	S-RAM, 256k, 32kW, 100ns, 10μA	1	1	1	1
	μPD43256AGU-10L	S-RAM, 256k, 32kW, 100ns, 1μA	1	1	1	1
	MB84256A-10LLPF	S-RAM, 256k, 32kW, 100ns, 5μA	1	1	1	1
	MB84256C-10LLPF	S-RAM, 256k, 32kW, 100ns, 5μA	1	1	1	1
	SRM20256LLM10	S-RAM, 256k, 32kW, 100ns, 1μA	1	1	1	1
IC11	LC3564QM-10TE-L	S-RAM, 64K	1	1	1	1
	LC3564QMF-10TLM		1	1	1	1
	LC3664BML-10TLM		1	1	1	1
	MN4464S-08LL (T1)		1	1	1	1
	HM9264LF10		1	1	1	1
IC23	TC74HC00AF (T1)	CMOS	1	1	1	1
IC14	DICF-32CS	IC Socket	1	1	1	1
	4100-32AT1W		1	1	1	1

FCB3 (DZYNA1525) (2/9)

Ref. No.	Part No.	Description	[B]	[E]	[K]	[L]
IC15~16	MN41C4256ASJ-07Y/-08	D-RAM 1M	1	1	1	1
	MN41C4256ASJ-08M		1	1	1	1
	LC324256JL-80		1	1	1	1
	MB81C4256A-80LJ		1	1	1	1
	HM514256ALJP7		1	1	1	1
	HM514256ALJP8GS		1	1	1	1
	TC514256AJL80		1	1	1	1
R294	ERJ6GEYG393V	Chip Resistor, 39k Ω , 1/10W, 2%	1	1	1	1
R293	ERJ6GEY472V	Chip Resistor, 4.7k Ω , 1/10W, 2%	1	1	1	1
R295	ERJ6GEY621V	Chip Resistor, 620 Ω , 1/10W, 2%	1	1	1	1
R13	ERJ6GEYJ100V	Chip Resistor, 10 Ω , 1/10W, 5%	1	1	1	1
R33	ERJ6GEYJ100V	Chip Resistor, 10 Ω , 1/10W, 5%	1	1	1	1
R67	ERJ6GEYJ100V	Chip Resistor, 10 Ω , 1/10W, 5%	1	1	1	1
R250	ERJ6GEYJ100V	Chip Resistor, 10 Ω , 1/10W, 5%	1	1	1	1
R287	ERJ6GEYJ100V	Chip Resistor, 10 Ω , 1/10W, 5%	1	1	1	1
R27	ERJ6GEYJ100V	Chip Resistor, 10 Ω , 1/10W, 5%	1	1	1	1
R296	ERJ6GEYJ100V	Chip Resistor, 10 Ω , 1/10W, 5%	1	1	1	1
R329	ERJ6GEYJ100V	Chip Resistor, 10 Ω , 1/10W, 5%	1	1	1	1
R17	ERJ6GEYJ100V	Chip Resistor, 10 Ω , 1/10W, 5%	1	1	1	1
R19	ERJ6GEYJ100V	Chip Resistor, 10 Ω , 1/10W, 5%	1	1	1	1
R217	ERJ6GEYJ100V	Chip Resistor, 10 Ω , 1/10W, 5%	1	1	1	1
R239	ERJ6GEYJ100V	Chip Resistor, 10 Ω , 1/10W, 5%	1	1	1	1
R7~8	ERJ6GEYJ101V	Chip Resistor, 100 Ω , 1/10W, 5%	1	1	1	1
R63	ERJ6GEYJ101V	Chip Resistor, 100 Ω , 1/10W, 5%	1	1	1	1
R66	ERJ6GEYJ101V	Chip Resistor, 100 Ω , 1/10W, 5%	1	1	1	1
R73~77	ERJ6GEYJ101V	Chip Resistor, 100 Ω , 1/10W, 5%	1	1	1	1
R93	ERJ6GEYJ101V	Chip Resistor, 100 Ω , 1/10W, 5%	1	1	1	1
R102~105	ERJ6GEYJ101V	Chip Resistor, 100 Ω , 1/10W, 5%	1	1	1	1
R107	ERJ6GEYJ101V	Chip Resistor, 100 Ω , 1/10W, 5%	1	1	1	1
R111~116	ERJ6GEYJ101V	Chip Resistor, 100 Ω , 1/10W, 5%	1	1	1	1
R120~134	ERJ6GEYJ101V	Chip Resistor, 100 Ω , 1/10W, 5%	1	1	1	1
R136	ERJ6GEYJ101V	Chip Resistor, 100 Ω , 1/10W, 5%	1	1	1	1
R152	ERJ6GEYJ101V	Chip Resistor, 100 Ω , 1/10W, 5%	1	1	1	1
R192	ERJ6GEYJ101V	Chip Resistor, 100 Ω , 1/10W, 5%	1	1	1	1
R197	ERJ6GEYJ101V	Chip Resistor, 100 Ω , 1/10W, 5%	1	1	1	1
R206	ERJ6GEYJ101V	Chip Resistor, 100 Ω , 1/10W, 5%	1	1	1	1
R222	ERJ6GEYJ101V	Chip Resistor, 100 Ω , 1/10W, 5%	1	1	1	1
R278~279	ERJ6GEYJ101V	Chip Resistor, 100 Ω , 1/10W, 5%	1	1	1	1
R284	ERJ6GEYJ101V	Chip Resistor, 100 Ω , 1/10W, 5%	1	1	1	1
R322~325	ERJ6GEYJ101V	Chip Resistor, 100 Ω , 1/10W, 5%	1	1	1	1
R3	ERJ6GEYJ101V	Chip Resistor, 47 Ω , 1/10W, 5%	1	1	1	1
R6	ERJ6GEYJ101V	Chip Resistor, 47 Ω , 1/10W, 5%	1	1	1	1

FCB3 (DZYNA1525) (3/9)

Ref. No.	Part No.	Description	[B]	[E]	[K]	[L]
R11~12	ERJ6GEYJ101V	Chip Resistor, 47 Ω , 1/10W, 5%	1	1	1	1
R16	ERJ6GEYJ101V	Chip Resistor, 150 Ω , 1/10W, 5%	1	1	1	1
R190~191	ERJ6GEYJ101V	Chip Resistor, 150 Ω , 1/10W, 5%	1	1	1	1
R187	ERJ6GEYJ101V	Chip Resistor, 270 Ω , 1/10W, 5%	1	1	1	1
R188	ERJ6GEYJ101V	Chip Resistor, 180 Ω , 1/10W, 5%	1	1	1	1
R5	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω , 1/10W, 5%	1	1	1	1
R30~31	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω , 1/10W, 5%	1	1	1	1
R37	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω , 1/10W, 5%	1	1	1	1
R42	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω , 1/10W, 5%	1	1	1	1
R47	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω , 1/10W, 5%	1	1	1	1
R56	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω , 1/10W, 5%	1	1	1	1
R97~99	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω , 1/10W, 5%	1	1	1	1
R135	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω , 1/10W, 5%	1	1	1	1
R137	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω , 1/10W, 5%	1	1	1	1
R142	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω , 1/10W, 5%	1	1	1	1
R146	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω , 1/10W, 5%	1	1	1	1
R153	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω , 1/10W, 5%	1	1	1	1
R156	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω , 1/10W, 5%	1	1	1	1
R159	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω , 1/10W, 5%	1	1	1	1
R162~163	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω , 1/10W, 5%	1	1	1	1
R208	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω , 1/10W, 5%	1	1	1	1
R225	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω , 1/10W, 5%	1	1	1	1
R285	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω , 1/10W, 5%	1	1	1	1
R301	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω , 1/10W, 5%	1	1	1	1
R326~327	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω , 1/10W, 5%	1	1	1	1
R332	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω , 1/10W, 5%	1	1	1	1
R69~70	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω			1	1
R161	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω			1	1
R328	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω			1	1
R331	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω			1	1
R330	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω	1	1		
R157	ERJ6GEYJ102V	Chip Resistor, 1.0k Ω	1	1		
	ERJ6GEYJ103V	Chip Resistor, 10k Ω			1	1
R160	ERJ6GEYJ103V	Chip Resistor, 10k Ω			1	1
R4	ERJ6GEYJ103V	Chip Resistor, 10k Ω	1	1	1	1
R21	ERJ6GEYJ103V	Chip Resistor, 10k Ω	1	1		
R20	ERJ6GEYJ103V	Chip Resistor, 10k Ω			1	1
R10	ERJ6GEYJ103V	Chip Resistor, 10k Ω , 1/10W, 5%	1	1	1	1
R14	ERJ6GEYJ103V	Chip Resistor, 10k Ω , 1/10W, 5%	1	1	1	1
R18	ERJ6GEYJ103V	Chip Resistor, 10k Ω , 1/10W, 5%	1	1	1	1
R25~26	ERJ6GEYJ103V	Chip Resistor, 10k Ω , 1/10W, 5%	1	1	1	1
R51	ERJ6GEYJ103V	Chip Resistor, 10k Ω , 1/10W, 5%	1	1	1	1

FCB3 (DZYNA1525) (4/9)

Ref. No.	Part No.	Description	[B]	[E]	[K]	[L]
R60	ERJ6GEYJ103V	Chip Resistor, 10k Ω , 1/10W, 5%	1	1	1	1
R91~92	ERJ6GEYJ103V	Chip Resistor, 10k Ω , 1/10W, 5%	1	1	1	1
R96	ERJ6GEYJ103V	Chip Resistor, 10k Ω , 1/10W, 5%	1	1	1	1
R101	ERJ6GEYJ103V	Chip Resistor, 10k Ω , 1/10W, 5%	1	1	1	1
R141	ERJ6GEYJ103V	Chip Resistor, 10k Ω , 1/10W, 5%	1	1	1	1
R145	ERJ6GEYJ103V	Chip Resistor, 10k Ω , 1/10W, 5%	1	1	1	1
R170~172	ERJ6GEYJ103V	Chip Resistor, 10k Ω , 1/10W, 5%	1	1	1	1
R193	ERJ6GEYJ103V	Chip Resistor, 10k Ω , 1/10W, 5%	1	1	1	1
R198~205	ERJ6GEYJ103V	Chip Resistor, 10k Ω , 1/10W, 5%	1	1	1	1
R209~210	ERJ6GEYJ103V	Chip Resistor, 10k Ω , 1/10W, 5%	1	1	1	1
R219	ERJ6GEYJ103V	Chip Resistor, 10k Ω , 1/10W, 5%	1	1	1	1
R223~224	ERJ6GEYJ103V	Chip Resistor, 10k Ω , 1/10W, 5%	1	1	1	1
R226	ERJ6GEYJ103V	Chip Resistor, 10k Ω , 1/10W, 5%	1	1	1	1
R244	ERJ6GEYJ103V	Chip Resistor, 10k Ω , 1/10W, 5%	1	1	1	1
R259~260	ERJ6GEYJ103V	Chip Resistor, 10k Ω , 1/10W, 5%	1	1	1	1
R298	ERJ6GEYJ103V	Chip Resistor, 10k Ω , 1/10W, 5%	1	1	1	1
R321	ERJ6GEYJ103V	Chip Resistor, 10k Ω , 1/10W, 5%	1	1	1	1
R1	ERJ6GEYJ104V	Chip Resistor, 100k Ω , 1/10W, 5%	1	1	1	1
R32	ERJ6GEYJ104V	Chip Resistor, 100k Ω , 1/10W, 5%	1	1	1	1
R34	ERJ6GEYJ104V	Chip Resistor, 100k Ω , 1/10W, 5%	1	1	1	1
R58	ERJ6GEYJ104V	Chip Resistor, 100k Ω , 1/10W, 5%	1	1	1	1
R64~65	ERJ6GEYJ104V	Chip Resistor, 100k Ω , 1/10W, 5%	1	1	1	1
R158	ERJ6GEYJ104V	Chip Resistor, 100k Ω , 1/10W, 5%	1	1	1	1
R277	ERJ6GEYJ104V	Chip Resistor, 100k Ω , 1/10W, 5%	1	1	1	1
R196	ERJ6GEYJ105V	Chip Resistor, 1.0M Ω , 1/10W, 5%	1	1	1	1
R38	ERJ6GEYJ122V	Chip Resistor, 1.2k Ω , 1/10W, 5%	1	1	1	1
R238	ERJ6GEYJ123V	Chip Resistor, 12k Ω , 1/10W, 5%	1	1	1	1
R190~191	ERJ6GEYJ151V	Chip Resistor, 150 Ω , 1/10W, 5%	1	1	1	1
R240~241	ERJ6GEYJ152V	Chip Resistor, 1.5k Ω , 1/10W, 5%	1	1	1	1
R183	ERJ6GEYG152V	Chip Resistor, 1.5k Ω , 1/10W, 2%	1	1	1	1
R282	ERJ6GEYJ154V	Chip Resistor, 150k Ω , 1/10W, 5%	1	1	1	1
R45	ERJ6GEYJ2R2V	Chip Resistor, 2.2 Ω , 1/10W, 5%	1	1	1	1
R289	ERJ6GEYJ2R2V	Chip Resistor, 2.2 Ω , 1/10W, 5%	1	1	1	1
R16	ERJ6GEYJ221V	Chip Resistor, 220 Ω , 1/10W, 5%	1	1	1	1
R23~24	ERJ6GEYJ221V	Chip Resistor, 220 Ω , 1/10W, 5%	1	1	1	1
R35~36	ERJ6GEYJ221V	Chip Resistor, 220 Ω , 1/10W, 5%	1	1	1	1
R188	ERJ6GEYJ221V	Chip Resistor, 220 Ω , 1/10W, 5%	1	1	1	1
R52	ERJ6GEYJ221V	Chip Resistor, 220 Ω , 1/10W, 5%	1	1	1	1
R280~281	ERJ6GEYJ221V	Chip Resistor, 220 Ω , 1/10W, 5%	1	1	1	1
R286	ERJ6GEYJ221V	Chip Resistor, 220 Ω , 1/10W, 5%	1	1	1	1
R22	ERJ6GEYJ222V	Chip Resistor, 2.2k Ω , 1/10W, 5%	1	1	1	1
R50	ERJ6GEYJ222V	Chip Resistor, 2.2k Ω , 1/10W, 5%	1	1	1	1

FCB3 (DZYNA1525) (5/9)

Ref. No.	Part No.	Description	[B]	[E]	[K]	[L]
R283	ERJ6GEYJ222V	Chip Resistor, 2.2k Ω , 1/10W, 5%	1	1	1	1
R291	ERJ6GEYJ222V	Chip Resistor, 2.2k Ω , 1/10W, 5%	1	1	1	1
R320	ERJ6GEYJ222V	Chip Resistor, 2.2k Ω , 1/10W, 5%	1	1	1	1
R57	ERJ6GEYJ223V	Chip Resistor, 22k Ω , 1/10W, 5%	1	1	1	1
R39~40	ERJ6GEYJ224V	Chip Resistor, 220k Ω , 1/10W, 5%	1	1	1	1
R44	ERJ6GEYJ241V	Chip Resistor, 240 Ω , 1/10W, 5%	1	1	1	1
R90	ERJ6GEYJ272V	Chip Resistor, 2.7k Ω , 1/10W, 5%	1	1	1	1
R55	ERJ6GEYJ273V	Chip Resistor, 27k Ω , 1/10W, 5%	1	1	1	1
R147~150	ERJ6GEYJ273V	Chip Resistor, 27k Ω , 1/10W, 5%	1	1	1	1
R43	ERJ6GEYJ273V	Chip Resistor, 27k Ω , 1/10W, 5%	1	1	1	1
R151	ERJ6GEYJ273V	Chip Resistor, 27k Ω , 1/10W, 5%	1	1	1	1
R154~155	ERJ6GEYJ273V	Chip Resistor, 27k Ω , 1/10W, 5%	1	1	1	1
R237	ERJ6GEYJ273V	Chip Resistor, 27k Ω , 1/10W, 5%	1	1	1	1
R245	ERJ6GEYJ273V	Chip Resistor, 27k Ω , 1/10W, 5%	1	1	1	1
R187	ERJ6GEYJ271V	Chip Resistor, 270 Ω , 1/10W, 5%	1	1	1	1
R211~216	ERJ6GEYJ330V	Chip Resistor, 33 Ω , 1/10W, 5%	1	1	1	1
R218	ERJ6GEYJ330V	Chip Resistor, 33 Ω , 1/10W, 5%	1	1	1	1
R220	ERJ6GEYJ330V	Chip Resistor, 33 Ω , 1/10W, 5%	1	1	1	1
R227~236	ERJ6GEYJ330V	Chip Resistor, 33 Ω , 1/10W, 5%	1	1	1	1
R242~243	ERJ6GEYJ330V	Chip Resistor, 33 Ω , 1/10W, 5%	1	1	1	1
R59	ERJ6GEYJ332V	Chip Resistor, 3.3k Ω , 1/10W, 5%	1	1	1	1
R292	ERJ6GEYJ334V	Chip Resistor, 330k Ω , 1/10W, 5%	1	1	1	1
R207	ERJ6GEYJ390V	Chip Resistor, 39 Ω , 1/10W, 5%	1	1	1	1
R221	ERJ6GEYJ390V	Chip Resistor, 39 Ω , 1/10W, 5%	1	1	1	1
R62	ERJ6GEYJ393V	Chip Resistor, 39k Ω , 1/10W, 5%	1	1	1	1
R249	ERJ6GEYJ393V	Chip Resistor, 39k Ω , 1/10W, 5%	1	1	1	1
R41	ERJ6GEYJ472V	Chip Resistor, 4.7k Ω , 1/10W, 5%	1	1	1	1
R48~49	ERJ6GEYJ472V	Chip Resistor, 4.7k Ω , 1/10W, 5%	1	1	1	1
R181	ERJ6GEYJ472V	Chip Resistor, 4.7k Ω , 1/10W, 5%	1	1	1	1
R248	ERJ6GEYJ472V	Chip Resistor, 4.7k Ω , 1/10W, 5%	1	1	1	1
R288	ERJ6GEYJ472V	Chip Resistor, 4.7k Ω , 1/10W, 5%	1	1	1	1
R290	ERJ6GEYJ472V	Chip Resistor, 4.7k Ω , 1/10W, 5%	1	1	1	1
R186	ERJ6GEYJ472V	Chip Resistor, 4.7k Ω		1		1
R3	ERJ6GEYJ470V	Chip Resistor, 47 Ω , 1/10W, 5%	1	1	1	1
R6	ERJ6GEYJ470V	Chip Resistor, 47 Ω , 1/10W, 5%	1	1	1	1
R11~R12	ERJ6GEYJ470V	Chip Resistor, 47 Ω , 1/10W, 5%	1	1	1	1
R46	ERJ6GEYJ473V	Chip Resistor, 47k Ω , 1/10W, 5%	1	1	1	1
R61	ERJ6GEYJ473V	Chip Resistor, 47k Ω , 1/10W, 5%	1	1	1	1
R68	ERJ6GEYJ473V	Chip Resistor, 47k Ω , 1/10W, 5%	1	1	1	1
R182	ERJ6GEYJ473V	Chip Resistor, 47k Ω , 1/10W, 5%	1	1	1	1
R184	ERJ6GEYJ473V	Chip Resistor, 47k Ω		1		1
R53~54	ERJ6GEYJ474V	Chip Resistor, 470k Ω , 1/10W, 5%	1	1	1	1

FCB3 (DZYNA1525) (6/9)

Ref. No.	Part No.	Description	[B]	[E]	[K]	[L]
R297	ERJ6GEYJ513V	Chip Resistor, 51k Ω , 1/10W, 5%	1	1	1	1
R179	ERJ6GEYG561V	Chip Resistor, 560 Ω , 1/10W, 2%	1	1	1	1
R15	ERJ6GEYJ680V	Chip Resistor, 68 Ω , 1/10W, 5%	1	1	1	1
R246~247	ERJ6GEYJ682V	Chip Resistor, 6.8k Ω , 1/10W, 5%	1	1	1	1
R118~119	ERJ6GEYJ0R00V	Chip Resistor, 0.0 Ω , 1/10W, 5%	1	1	1	1
R140	ERJ6GEYJ0R00V	Chip Resistor, 0.0 Ω , 1/10W, 5%	1	1	1	1
R143~144	ERJ6GEYJ0R00V	Chip Resistor, 0.0 Ω , 1/10W, 5%	1	1	1	1
R299	ERJ6GEYJ0R00V	Chip Resistor, 0.0 Ω , 1/10W, 5%	1	1	1	1
R110	ERJ6GEY0R00V	Chip Resistor, 0 Ω		1		1
R273	ERJ6GEY0R00V	Chip Resistor, 0 Ω	1	1	1	1
R139	ERJ12YJ102V	Chip Resistor, 1.0k Ω , 1/2W, 5%	1	1	1	1
R138	ERJ12YJ221V	Chip Resistor, 220 Ω , 1/2W, 5%	1	1	1	1
R109	ERJ12YJ561V	Chip Resistor, 560 Ω , 1/2W, 5%	1	1	1	1
C49	ECEA0JKS470B	Aluminum Electrolytic Capacitor, 47 μ F, 6.3VDC, 20%	1	1	1	1
C37	ECEA1CKS100B	Aluminum Electrolytic Capacitor, 10 μ F, 16VDC, 20%	1	1	1	1
C1	ECEA1CKS220B	Aluminum Electrolytic Capacitor, 22 μ F, 16VDC, 20%	1	1	1	1
C21	ECEA1CKS220B	Aluminum Electrolytic Capacitor, 22 μ F, 16VDC, 20%	1	1	1	1
C25	ECEA1CKS220B	Aluminum Electrolytic Capacitor, 22 μ F, 16VDC, 20%	1	1	1	1
C74~75	ECEA1CKS220B	Aluminum Electrolytic Capacitor, 22 μ F, 16VDC, 20%	1	1	1	1
C24	ECEA1CKS4R7B	Aluminum Electrolytic Capacitor, 4.7 μ F, 16VDC, 20%	1	1	1	1
C34	ECEA1CKS470B	Aluminum Electrolytic Capacitor, 47 μ F, 16VDC, 20%	1	1	1	1
C38	ECEA1CKS470B	Aluminum Electrolytic Capacitor, 47 μ F, 16VDC, 20%	1	1	1	1
C50	ECEA1CKS470B	Aluminum Electrolytic Capacitor, 47 μ F, 16VDC, 20%	1	1	1	1
C66~67	ECEA1CKS470B	Aluminum Electrolytic Capacitor, 47 μ F, 16VDC, 20%	1	1	1	1
C22	ECEA1CKS470B	Aluminum Electrolytic Capacitor, 47 μ F, 16V		1		1
C20	ECEA1VKS220B	Aluminum Electrolytic Capacitor, 22 μ F, 35VDC, 20%	1	1	1	1
C79~80	ECEA1VKS220B	Aluminum Electrolytic Capacitor, 22 μ F, 35VDC, 20%	1	1	1	1
C7	GRM40B102K50PT	Chip Capacitor, 1000pF/50VDC, 10%	1	1	1	1
C23	GRM40B102K50PT	Chip Capacitor, 1000pF/50VDC, 10%	1	1	1	1
C76	GRM40B102K50PT	Chip Capacitor, 1000pF/50VDC, 10%	1	1	1	1
C78	GRM40B102K50PT	Chip Capacitor, 1000pF/50VDC, 10%	1	1	1	1
C85	GRM40B102K50PT	Chip Capacitor, 1000pF/50VDC, 10%	1	1	1	1
C89~90	GRM40B102K50PT	Chip Capacitor, 1000pF/50VDC, 10%	1	1	1	1
C93	GRM40B102K50PT	Chip Capacitor, 1000pF/50VDC, 10%	1	1	1	1
C95~96	GRM40B102K50PT	Chip Capacitor, 1000pF/50VDC, 10%	1	1	1	1
C98	GRM40B102K50PT	Chip Capacitor, 1000pF/50VDC, 10%	1	1	1	1
C100	GRM40B102K50PT	Chip Capacitor, 1000pF/50VDC, 10%	1	1	1	1
C116	GRM40B102K50PT	Chip Capacitor, 1000pF/50VDC, 10%	1	1	1	1
C136	GRM40B102K50PT	Chip Capacitor, 1000pF/50VDC, 10%	1	1	1	1
C162~164	GRM40B102K50PT	Chip Capacitor, 1000pF/50VDC, 10%	1	1	1	1
C180	GRM40B102K50PT	Chip Capacitor, 1000pF/50VDC, 10%	1	1	1	1
C123	GRM40B103K50PT	Chip Capacitor, 0.01 μ F/50VDC, 10%	1	1	1	1
C31	GRM40B222K50PT	Chip Capacitor, 2200pF/50VDC, 10%	1	1	1	1

FCB3 (DZYNA1525) (7/9)

Ref. No.	Part No.	Description	[B]	[E]	[K]	[L]
C47~48	GRM40B222K50PT	Chip Capacitor, 2200pF/50VDC, 10%	1	1	1	1
C146	GRM40B222K50PT	Chip Capacitor, 2200pF/50VDC, 10%	1	1	1	1
C121	GRM40B332K50PT	Chip Capacitor, 3300pF/50VDC, 10%	1	1	1	1
C43	GRM40B472J50PT	Chip Capacitor, 4700pF/50VDC, 5%	1	1	1	1
C91	GRM40B473K50PT	Chip Capacitor, 0.047μF/50VDC, 10%	1	1	1	1
C39	GRM40CH100D50PT	Chip Capacitor, 10pF/50VDC, ±0.5pF	1	1	1	1
C15	GRM40CH101K50PT	Chip Capacitor, 100pF/50VDC, 10%	1	1	1	1
C29	GRM40CH101K50PT	Chip Capacitor, 100pF/50VDC, 10%	1	1	1	1
C32	GRM40CH101K50PT	Chip Capacitor, 100pF/50VDC, 10%	1	1	1	1
C64	GRM40CH101K50PT	Chip Capacitor, 100pF/50VDC, 10%	1	1	1	1
C72	GRM40CH101K50PT	Chip Capacitor, 100pF/50VDC, 10%	1	1	1	1
C77	GRM40CH101K50PT	Chip Capacitor, 100pF/50VDC, 10%	1	1	1	1
C88	GRM40CH101K50PT	Chip Capacitor, 100pF/50VDC, 10%	1	1	1	1
C145	GRM40CH101K50PT	Chip Capacitor, 100pF/50VDC, 10%	1	1	1	1
C167~179	GRM40CH101K50PT	Chip Capacitor, 100pF/50VDC, 10%	1	1	1	1
C181	GRM40CH101K50PT	Chip Capacitor, 100pF/50VDC, 10%	1	1	1	1
C114~115	GRM40CH150J50PT	Chip Capacitor, 15pF/50VDC, 5%	1	1	1	1
C138	GRM40CH180J50PT	Chip Capacitor, 18pF/50VDC, 5%	1	1	1	1
C148	GRM40CH331J50PT	Chip Capacitor, 330pF/50VDC, 5%	1	1	1	1
C137	GRM40CH390J50PT	Chip Capacitor, 39pF/50VDC, 5%	1	1	1	1
C94	GRM40B102K50PT	Chip Capacitor, 1000pF/50V			1	1
C151~152	GRM40B102K50PT	Chip Capacitor, 1000pF/50V			1	1
C92	GRM40B102K50PT	Chip Capacitor, 1000pF/50V			1	1
	GRM40F104Z25PT	Chip Capacitor, 0.1μF/25V	1	1		
C112	GRM40F104Z25PT	Chip Capacitor, 0.1μF/25V		1		1
C2	GRM40F104Z25PT	Chip Capacitor, 0.1μF/25VDC, +80%, -20%	1	1	1	1
C14	GRM40F104Z25PT	Chip Capacitor, 0.1μF/25VDC, +80%, -20%	1	1	1	1
C27~28	GRM40F104Z25PT	Chip Capacitor, 0.1μF/25VDC, +80%, -20%	1	1	1	1
C30	GRM40F104Z25PT	Chip Capacitor, 0.1μF/25VDC, +80%, -20%	1	1	1	1
C35	GRM40F104Z25PT	Chip Capacitor, 0.1μF/25VDC, +80%, -20%	1	1	1	1
C40~42	GRM40F104Z25PT	Chip Capacitor, 0.1μF/25VDC, +80%, -20%	1	1	1	1
C45~46	GRM40F104Z25PT	Chip Capacitor, 0.1μF/25VDC, +80%, -20%	1	1	1	1
C51	GRM40F104Z25PT	Chip Capacitor, 0.1μF/25VDC, +80%, -20%	1	1	1	1
C60	GRM40F104Z25PT	Chip Capacitor, 0.1μF/25VDC, +80%, -20%	1	1	1	1
C68~71	GRM40F104Z25PT	Chip Capacitor, 0.1μF/25VDC, +80%, -20%	1	1	1	1
C81~83	GRM40F104Z25PT	Chip Capacitor, 0.1μF/25VDC, +80%, -20%	1	1	1	1
C111	GRM40F104Z25PT	Chip Capacitor, 0.1μF/25VDC, +80%, -20%	1	1	1	1
C118	GRM40F104Z25PT	Chip Capacitor, 0.1μF/25VDC, +80%, -20%	1	1	1	1
C120	GRM40F104Z25PT	Chip Capacitor, 0.1μF/25VDC, +80%, -20%	1	1	1	1
C122	GRM40F104Z25PT	Chip Capacitor, 0.1μF/25VDC, +80%, -20%	1	1	1	1
C131~132	GRM40F104Z25PT	Chip Capacitor, 0.1μF/25VDC, +80%, -20%	1	1	1	1
C135	GRM40F104Z25PT	Chip Capacitor, 0.1μF/25VDC, +80%, -20%	1	1	1	1
C144	GRM40F104Z25PT	Chip Capacitor, 0.1μF/25VDC, +80%, -20%	1	1	1	1

FCB3 (DZYNA1525) (8/9)

Ref. No.	Part No.	Description	[B]	[E]	[K]	[L]
C149~150	GRM40F104Z25PT	Chip Capacitor, 0.1μF/25VDC, +80%, -20%	1	1	1	1
C165~166	GRM40F104Z25PT	Chip Capacitor, 0.1μF/25VDC, +80%, -20%	1	1	1	1
C4~5	GRM40F105Z16PT	Chip Capacitor, 1μF/16VDC, +80%, -20%	1	1	1	1
C6	GRM40F105Z16PT	Chip Capacitor, 1μF/16VDC, +80%, -20%	1	1	1	1
C8~13	GRM40F105Z16PT	Chip Capacitor, 1μF/16VDC, +80%, -20%	1	1	1	1
C26	GRM40F105Z16PT	Chip Capacitor, 1μF/16VDC, +80%, -20%	1	1	1	1
C33	GRM40F105Z16PT	Chip Capacitor, 1μF/16VDC, +80%, -20%	1	1	1	1
C36	GRM40F105Z16PT	Chip Capacitor, 1μF/16VDC, +80%, -20%	1	1	1	1
C52~53	GRM40F105Z16PT	Chip Capacitor, 1μF/16VDC, +80%, -20%	1	1	1	1
C61~63	GRM40F105Z16PT	Chip Capacitor, 1μF/16VDC, +80%, -20%	1	1	1	1
C65	GRM40F105Z16PT	Chip Capacitor, 1μF/16VDC, +80%, -20%	1	1	1	1
C73	GRM40F105Z16PT	Chip Capacitor, 1μF/16VDC, +80%, -20%	1	1	1	1
C84	GRM40F105Z16PT	Chip Capacitor, 1μF/16VDC, +80%, -20%	1	1	1	1
C86~87	GRM40F105Z16PT	Chip Capacitor, 1μF/16VDC, +80%, -20%	1	1	1	1
C97	GRM40F105Z16PT	Chip Capacitor, 1μF/16VDC, +80%, -20%	1	1	1	1
C99	GRM40F105Z16PT	Chip Capacitor, 1μF/16VDC, +80%, -20%	1	1	1	1
C110	GRM40F105Z16PT	Chip Capacitor, 1μF/16VDC, +80%, -20%	1	1	1	1
C117	GRM40F105Z16PT	Chip Capacitor, 1μF/16VDC, +80%, -20%	1	1	1	1
C119	GRM40F105Z16PT	Chip Capacitor, 1μF/16VDC, +80%, -20%	1	1	1	1
C133~134	GRM40F105Z16PT	Chip Capacitor, 1μF/16VDC, +80%, -20%	1	1	1	1
C139~143	GRM40F105Z16PT	Chip Capacitor, 1μF/16VDC, +80%, -20%	1	1	1	1
C147	GRM40F105Z16PT	Chip Capacitor, 1μF/16VDC, +80%, -20%	1	1	1	1
C160~161	GRM40F105Z16PT	Chip Capacitor, 1μF/16VDC, +80%, -20%	1	1	1	1
X1	AT-51 (24.0M)	Crystal Oscillator, 24.0000MHz	1	1	1	1
	S97-001		1	1	1	1
X3	CSA24.3MXZ040-T	Ceramic Oscillator, 24.3000MHz	1	1	1	1
Q3~4	DTC144WKT146	Transistor	1	1	1	1
	UN221E		1	1	1	1
Q6	DTC144WKT146	Transistor	1	1	1	1
	UN221E		1	1	1	1
Q7~8	2SC2412KT146	Transistor	1	1	1	1
	2SD601A		1	1	1	1
	HNT-1815-C4G		1	1	1	1
Q12	2SD893A	Transistor		1		1
Q13	2SD592A	Transistor	1	1	1	1
QA1	TD62164BP	Transistor Array	1	1	1	1
D3~4	DAN217T146	Diode	1	1	1	1
	MA153A		1	1	1	1
D6	DA116T146	Diode	1	1	1	1
	MA152A		1	1	1	1
D9~10	DA116T146	Diode	1	1	1	1
	MA152A		1	1	1	1

FCB3 (DZYNA1525) (9/9)

Ref. No.	Part No.	Description	[B]	[E]	[K]	[L]
D5	HZ36-2RE	Zener Diode	1	1	1	1
	MA1360 (TR)		1	1	1	1
D8	MA748	Diode	1	1	1	1
D16	MA748	Diode	1	1	1	1
D1~2	RB421D	Diode	1	1	1	1
	MA786		1	1	1	1
D15	1SR139-100	Diode		1		1
F1	K19396/2A	Fuse, 2A	1	1	1	1
CNP1	B5B-PH-K-M	Connector, 5P	1	1	1	1
CNP2	B15B-PH-K-M	Connector, 15P	1	1	1	1
CNP3	B2B-PH-K-S	Connector, 2P	1	1	1	1
CNP4	B6B-PH-K-S	Connector, 6P	1	1	1	1
CNP5	B10B-PH-K-M	Connector, 10P	1	1	1	1
CNP6	B8B-PH-K-M	Connector, 8P	1	1	1	1
CNP7	B9B-PH-K-M	Connector, 9P	1	1	1	1
CNP8	B7B-PH-K-M	Connector, 7P	1	1	1	1
CNP10	B2B-PH-K-S	Connector, 2P	1	1	1	1
CNP9	B2B-PH-K-S	Connector, 2P		1		1
CNP12	ICM-A45H-SD14-1	Connector, 45P		1		1
	JC20-C45P-LT1-A1-12			1		1
NF3~4	BL02RN1-R62T2	Noise Filter	1	1	1	1
BAT2	VL2020/1HF	Lithium Battery, 3V, 20mAh	1	1	1	1
JP5	ERJ6GEY0R00V	Jumper	1	1	1	1
JP13	ERJ6GEY0R00V	Jumper	1	1	1	1
JP12	ERJ6GEY0R00V	Jumper	1	1	1	1

LCU (DZYNA1435) (1/2)

Country Code List

Country Code	Country	Country Code	Country
[]	Canada	[E]	Other Countries (100V)
[B]	North America		Other Countries (200V)

Ref. No.	Part No.	Description	[]	[B]	[E]
T1	ETA24Y74AY	Transformer	1	1	1
T2	ETA16Y56AY	Transformer, 4.0VA	1	1	1
Q1~Q2	DTC143ZSTP	Transistor, 0.3W	1	1	1
	UN421N				
D3~D5	1SS131T-77	Diode, 130MA	1	1	1
D6	ERDS2TJ103T		1	1	1
D7	Tin Plating Wire	Jumper	1	1	1
PC1	PC814A	Photo Coupler	1	1	1
	PS2505-1				
	ON3181R				
PC2	PC817B	Photo Coupler	1	1	1
	PS2505-1				
	ON3181R				
RL1	G5V-24DC24	Relay (CML), DC24V	1	1	1
RL2	G6E134PLDC24	Relay, DC24V	1	1	1
F1	TAPE19374-0.8A	Fuse, 800MA/Slow	1		
F1	ERDS2TC0	1/4W		1	1
L1	BL02RN1R62T2	Ferrite Beads	1	1	1
L2~L5	SBT0260TF	Line Filter	1	1	1
NF1	ST-110AV	Choke Coil	1	1	1
VA1~VA2	RA391MV6Y2	Arrester	1	1	1
	2P-50R401				
VA3~VA4	NV390D10-TB2	Surge Absorber	1	1	1
VA5	VR61SSW	Varistor	1	1	1
CNJ20~ CNJ21	HJC0212-01-212	Modular Jack	1	1	1
	52065-6245				
CNP22	DF1B7PDSA21	Connector	1	1	1
CNP25	S15B-PH-K-M	Connector	1	1	1
FG	TW-4BS-2K	Earth Lag	1	1	1
R1~R4	ERDS2TJ470	Carbon Film Resistor, 1/4W	1	1	1
R5	ERDS2TJ101T	Carbon Film Resistor, 1/4W	1	1	1
R6	ERDS2TJ330T	Carbon Film Resistor, 1/4W	1	1	1
R7	ERDS2TJ820T	Carbon Film Resistor, 1/4W	1	1	1
R8	ERDS2TJ102T	Carbon Film Resistor, 1/4W	1	1	1
R9	ERDS2TJ222T	Carbon Film Resistor, 1/4W	1	1	1
R10	ERDS2TJ103T	Carbon Film Resistor, 1/4W	1	1	1
R11	ERDS2TJ103T	Carbon Film Resistor, 1/4W	1	1	
R11	ERDS2TJ332T	Carbon Film Resistor, 1/4W			1

LCU (DZYNA1435) (2/2)

Ref. No.	Part No.	Description	[]	[B]	[E]
R12	ERDS2TJ683T	Carbon Film Resistor, 1/4W	1	1	1
R13	ERDS2TJ683T	Carbon Film Resistor, 1/4W	1	1	1
R14	ERDS2TJ103T	Carbon Film Resistor, 1/4W	1	1	1
C1	ECQB1H223KF3	Plastic Capacitor	1	1	1
C2	ECQE2223KF3	Plastic Capacitor	1	1	1
C3	ECQE2334KF3	Plastic Capacitor	1	1	1
C4	ECEA1CN470SB	Electrolytic Capacitor	1	1	1
C5	ECQE2473KF	Plastic Capacitor	1	1	1
C7	ECQB1H104KF3	Plastic Capacitor	1	1	1
C8	ECQE2474KF	Plastic Capacitor	1	1	1
C9	ECEA1CKA220B	Electrolytic Capacitor	1	1	1
C10	ECEA1VKA220B	Electrolytic Capacitor	1	1	1
C12	ERDS2TC0	Carbon Film Resistor, 1/4W	1	1	1
JP1	Tin Plating Wire	Jumper	1	1	1
JP2	Tin Plating Wire	Jumper	1	1	1
JP15	Tin Plating Wire	Jumper	1	1	1
JP20~JP49	Tin Plating Wire	Jumper	1	1	1

Country Code List

[illegible]

LCE (DZYNA1436) (2/8)

Ref. No.	Part No.	Description	[B]	[G]	[H]	[LA]	[S]	[MA]	[V]	[A]	[JA]	[FA]	[TA]	[KA]	[EA]	[PA]	[N]	[WA]	[RA]	[D]	[QA]	[Q]
RL1	ULR-11915NVK	Relay			1	1					1	1	1		1	1			1	1		
RL2	DSB2M2DDC24V	Relay	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
RL5	AJK8342	Relay	1	1	1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1
RL4	UPM-15024YHL	Relay	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
RL3	AJK8342	Relay	1	1				1		1				1				1				
F1	K19372/100mA	Fuse	1			1																
	Tin Plating Wire	Fixed Resistor		1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
L1~L2	SBT-C260TF	Coil	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
L3~L4	SBT-C260TF	Coil	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
L6	LHL08NB272J	Coil						1														
L7	BL02RN1-R62T2	Ferrite Beads				1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
L8	Tin Plating Wire	Fixed Resistor				1				1	1	1	1	1	1	1	1	1	1	1	1	1
L8	LHL08NB272J	Coil						1														
NF1	ST-110AV	Choke Coil	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
VA1	2P-50R401	Arrester	1											1				1				1
VA2	RA391MV6Y2	Arrester		1	1				1	1	1		1		1	1	1		1			
	2P-50R401									1	1		1		1	1	1		1	1		
	2P-50R242												1		1	1	1		1	1		
	2P-50R302		1				1		1										1			
VA3	2P-50R401	Arrester								1	1		1		1	1	1		1	1	1	1
	2P-50R242						1		1													
	RA391MV6Y2			1	1					1	1		1		1	1	1		1	1		
	CTP10-0HM	Positive Thermister							1													
VA4	Tin Plating Wire	Jumper	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1
VA5	CTPJ120	Positive Thermister							1													
VA6	VR-61SSW	Varistor	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
VA11	NV100D14	Surge Absorber			1	1																
IC1	THS52	Current Detector		1			1	1	1		1						1				1	1

LCE (DZYNA1436) (3/8)

Ref. No.	Part No.	Description	[B]	[G]	[H]	[L-A]	[S]	[MA]	[V]	[A]	[JA]	[FA]	[TA]	[KA]	[EA]	[PA]	[N]	[WA]	[RA]	[D]	[QA]	[Q]
IC2	TC4014BP	P/S, S/S Shift Resistor	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	HD14014BP																					
	MC14014BP																					
RA1	EXBF7E104JF	Resistor Network	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CNJ20	HJC0212-01-012	Moduler Jack	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	52065-6645																					
CNJ21	HJC0212-01-012	Moduler Jack						1														
	52065-6645																					
	52065-6245			1	1	1					1		1		1	1				1	1	1
CNP22	DF1B7P2.5DSA21	Connector				1		1			1	1	1	1	1	1		1	1			
CNJ24	90C-71023D	BT Moduler Jack	1															1				
CNJ24	DZABU8617	Extension Cover BT Jack	1															1				
CNP25	B15B-PH-K-M	Connector	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1	ERDS2TJ102T	Fixed Resistor		1																		
	ERDS2TJ103T					1						1	1			1			1			
	ERDS2TJ392T																					
	ERDS2TJ472T						1															
	ERDS2TJ272T							1														
	ERDS2TJ273T																			1		
	ERDS2TJ332T								1													
R2	ERDS2TJ683T	Fixed Resistor	1				1	1		1		1	1	1	1	1		1	1		1	1
	ERDS2TJ393T			1																		
	ERDS2TJ103T					1																
	ERDS2TJ124T				1															1		
	ERDS2TJ823T								1								1					
	ERDS2TJ104T										1											
	ERDS2TJ183T																					
	ERDS2TJ154T																1					

LCE (DZYNA1436) (4/8)

[illegible]

LCE (DZYNA1436) (5/8)

[illegible]

LCE (DZYNA1436) (6/8)

[illegible]

LCE (DZYNA1436) (7/8)

Ref. No.	Part No.	Description	[B]	[G]	[H]	[LA]	[S]	[MA]	[V]	[A]	[JA]	[FA]	[TA]	[KA]	[EA]	[PA]	[N]	[WA]	[RA]	[D]	[QA]	[Q]
C14	ECQE2153KF3	Plastic Capacitor						1										1				
	ECQE2683KF3	Plastic Capacitor				1																
	ECQE2333KF3	Plastic Capacitor		1													1					
	ECQE2473KF3	Plastic Capacitor	1																			
C15	ECQV1H105JM3	Plastic Capacitor				1					1						1	1				
	ECQE1155KF3	Plastic Capacitor	1	1			1	1														
	ECQB1H823JF3	Plastic Capacitor												1								
	ECQB1H333JF3	Plastic Capacitor									1											
C16	ECQB1H473JF3	Plastic Capacitor			1					1		1	1		1	1	1		1	1	1	1
	ECQB1H104JF3	Plastic Capacitor	1	1																		
	ERQB1H683JF3	Plastic Capacitor				1		1										1				
	ERQB1H223JF3	Plastic Capacitor							1													
	ECQE2473KF3	Plastic Capacitor	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1
	ECQB1H683JF3	Ceramic Capacitor						1														
C18	ERDS2TC0T	Fixed Resistor			1	1																
C20	ERDS2TC0T	Fixed Resistor				1	1	1	1													
JP2	ERDS2TC0T	Fixed Resistor				1	1	1	1													
JP3	ERDS2TC0T	Fixed Resistor				1	1	1	1													
JP5	ERDS2TC0T	Fixed Resistor				1	1	1	1													
JP6	ERDS2TC0T	Fixed Resistor	1											1				1				
JP7	ERDS2TC0T	Fixed Resistor		1	1					1	1	1	1	1	1	1	1	1	1	1	1	1
JP8	ERDS2TC0T	Fixed Resistor		1	1					1	1	1	1	1	1	1	1	1	1	1	1	1
JP9	ERDS2TC0T	Fixed Resistor	1					1						1				1				
JP11	ERDS2TC0T	Fixed Resistor								1												
JP12	ERDS2TC0T	Fixed Resistor	1											1				1				
JP13	ERDS2TC0T	Fixed Resistor		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
JP14	ERDS2TC0T	Fixed Resistor		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
JP15	ERDS2TC0T	Fixed Resistor	1											1				1				
JP18	ERDS2TC0T	Fixed Resistor	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
JP19	ERDS2TC0T	Fixed Resistor	1	1	1	1		1		1	1	1	1	1	1	1	1			1		

LCE (DZYNA1436) (8/8)

[illegible]

CCD (DZYNA1428)**Country Code List**

Country Code	Country	Country Code	Country
[]	UF-315 / PX-305 North America, Canada	[F]	UF-305 / UF-315 Others

Ref. No.	Part No.	Description	[]	[F]
IC1	μPD3732D	CCD	1	
IC1	μPD3733D	CCD		1
Q1	2SC1685	Transistor	1	1
C1	ECEA1CKA220B	Electrolytic Capacitor	1	1
C2	DD306295F104Z25	Ceramic Capacitor	1	1
R1, R2	ERDS2TJ101T	Fixed Resistor	1	1
R3	ERDS2TJ222T	Fixed Resistor	1	1
JP1	TCW0.5	Jumper	1	
JP2	TCW0.5	Jumper		1
JP4~JP6	TCW0.5	Jumper	1	1
CNP30	S98-PH-K-M	Connector	1	1

SEN (DZYNA1433)

Ref. No.	Part No.	Description
R1	Tin Plating Wire	Jumper
PC1, PC3, PC4	0N1024 TLP806 RPI-574N	Photo Interrupter
CN31	S7B-PH-K-M	Connector

BPS (DZYNA1441)

Ref. No.	Part No.	Description
PC1	0N1024 TLP806 RPI-574N	Photo Interrupter
JA1	DZADS8715	BPS Harness

PNL2 (DZYNA1443)

Country Code List

Country Code	Country	Country Code	Country	Country Code	Country
[A]	UF-315	[C]	UF-305	[E]	PX-305

Ref. No.	Part No.	Description	[A]	[C]	[E]
SW21 ~ SW36	EVQ21504M	Tact Switch	1	1	1
	SOR-112HS				
SW41 ~ SW52	EVQ21504M	Tact Switch	1	1	1
	SOR-112HS				
SW57 ~ SW72	EVQ21504M	Tact Switch	1	1	1
	SOR-112HS				
SW9~SW20	EVQ21504M	Tact Switch	1		
R1~R2	ERDS2TJ221T	Carbon Film Resistor, 1/4W	1	1	1
R5~R7	ERDS2TJ221T	Carbon Film Resistor, 1/4W	1	1	1
R10	ERDS2TJ221T	Carbon Film Resistor, 1/4W	1	1	1
J1~J6	Tin Plating Wire	Jumper	1	1	1
LED2~LED4	LN376GCPXUY-2UT	LED (Green)	1	1	1
LED7~LED9	LN376GCPXUY-2UT	LED (Green)	1	1	1
LED11	LN376GCPXUY-2UT	LED (Green)	1	1	1
LED14	LN376GCPXUY-2UT	LED (Green)	1	1	1
LED15	LN376GCPXUY-2UT	LED (Green)	1	1	1
D1	1SS131	Diode	1		
	MA167				
D2	1SS131	Diode	1		
	MA167				
D2	Tin Plating Wire	Jumper		1	
D4	Tin Plating Wire	Jumper			1
CN42	30FMZ-ST	Connector	1	1	1

Country Code List

[illegible]

SRU (DZYNA1448) (2/8)

[illegible]

SRU (DZYNA1448) (3/8)

Ref. No.	Part No.	Description	[]	[B]	[E]	[F]	[J]	[K]	[L]	[M]	[P]	[R]	[T]	[W]	[Z]	[X]	[U]
R7	ERDS2TC0T	Carbon Film Resistor, 1/4W	1	1	1	1	1	1	1		1	1	1	1	1	1	1
	ERDS2TJ122T									1							
R8	ERDS2TJ153T	Carbon Film Resistor, 1/4W	1	1		1	1	1	1		1	1	1	1	1	1	1
	ERDS2TJ103T	Carbon Film Resistor, 1/4W								1							
R10	ERDS2TJ4R7T	Carbon Film Resistor, 1/4W	1	1	1	1	1	1		1		1	1	1	1		
	ERDS2TJ3R3T								1							1	
	ERDS2TJ3R9T										1						1
	ERDS2TC0T																1
R11	ERDS2TJ104T	Carbon Film Resistor, 1/4W	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R12	ERDS2TJ332T	Carbon Film Resistor, 1/4W	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R13	ERDS2TJ750T	Carbon Film Resistor, 1/4W	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R14	ERDS2TJ750T	Carbon Film Resistor, 1/4W	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R15	ERDS2TJ332T	Carbon Film Resistor, 1/4W	1	1	1	1	1	1			1	1	1		1	1	
R16	ERDS2TJ222T	Carbon Film Resistor, 1/4W					1							1			
	ERDS2TJ272T								1								
	ERDS2TJ562T									1							1
R17	ERDS2TJ363T	Carbon Film Resistor, 1/4W				1		1	1			1	1		1		
R18	ERDS2TJ331T	Carbon Film Resistor, 1/4W	1	1					1				1		1		1
	ERDS2TJ152T								1								
	ERDS2TJ101T					1					1					1	
	ERDS2TC0T				1		1										
	ERDS2TJ472T									1							

SRU (DZYNA1448) (4/8)

Ref. No.	Part No.	Description	[I]	[B]	[E]	[F]	[J]	[K]	[L]	[M]	[P]	[R]	[T]	[W]	[Z]	[X]	[U]
R19	ERDS2TJ272T	Carbon Film Resistor, 1/4W			1												
	ERDS2TJ242T		1	1			1						1				
	ERDS2TJ222T					1		1								1	
	ERDS2TJ202T											1		1			
	ERDS2TJ122T								1								
	ERDS2TJ162T														1		
	ERDS2TJ621T																1
	ERDS2TJ152T									1							
	ERDS2TJ182T										1						
R20	ERDS2TJ302T	Carbon Film Resistor, 1/4W	1	1			1					1	1				
	ERDS2TJ512T								1								
	ERDS2TJ472T													1			
	ERDS2TJ272T				1						1					1	
	ERDS2TJ222T							1									
	ERDS2TJ202T					1											
	ERDS2TJ392T								1						1		
	ERDS2TJ432T																1
	ERDS2TJ102T	Carbon Film Resistor, 1/4W	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R23	ER0S2TKF1001T	Metal Film Resistor, 1/4W								1							
	ER0S2TKF4700T		1	1	1	1	1	1			1	1	1		1	1	
	ER0S2TKF1500T																1
	ER0S2TKF1501T								1						1		
	ER0S2TKF47R0T		1	1	1	1	1	1			1	1	1		1	1	
R24	ER0S2TKF15R0T	Metal Film Resistor, 1/4W															1
	ER0S2TKF1500T								1					1			

SRU (DZYNA1448) (5/8)

Ref. No.	Part No.	Description	[I]	[B]	[E]	[F]	[J]	[K]	[L]	[M]	[P]	[R]	[T]	[W]	[Z]	[X]	[U]
R25	ERDS2TJ103T	Carbon Film Resistor, 1/4W	1	1									1		1		
	ERDS2TJ473T				1	1	1	1		1	1	1				1	
	ERDS2TJ303T													1			
	ERDS2TJ513T								1								
	ER0S2TKF1000T									1							
	ERDS2TJ913T																
R26	ERDS2TJ123T	Carbon Film Resistor, 1/4W	1	1	1	1	1	1		1		1	1	1	1	1	1
	ERDS2TJ183T								1		1						
R27	ERDS2TJ153T	Carbon Film Resistor, 1/4W	1	1													
	ERDS2TJ564T								1					1			
	ERDS2TJ334T					1											
	ERDS2TJ274T							1									
	ERDS2TJ244T											1					
	ERDS2TJ224T						1									1	
	ERDS2TJ104T																1
	ERDS2TJ624T									1							
	ERDS2TJ184T										1						
	ERDS2TJ204T				1												
R28-R29	ERDS2TJ183T	Carbon Film Resistor, 1/4W	1	1		1							1				1
	ERDS2TJ153T											1					
	ERDS2TJ752T							1									
	ERDS2TJ562T								1		1				1		
	ERDS2TJ112T													1			
	ERDS2TJ822T				1		1									1	
R30	ERDS2TJ103T	Carbon Film Resistor, 1/4W								1							
	ERDS2TJ102T		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R31	ERDS2TJ621T													1			
	ERDS2TC0T								1	1							

SRU (DZYNA1448) (6/8)

[illegible]

SRU (DZYNA1448) (7/8)

[illegible]

SRU (DZYNA1448) (8/8)

Ref. No.	Part No.	Description	[]	[B]	[E]	[F]	[J]	[K]	[L]	[M]	[P]	[R]	[T]	[W]	[Z]	[X]	[U]
C23	ECEA1EKA4R7I	Electrolytic Capacitor	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C24	ECBT1H102KB5	Ceramic Capacitor	1	1	1		1	1		1	1	1	1	1	1		
C25	ECQB1H683JF3	Plastic Capacitor								1							
	ECQB1H563JF3								1					1			

SRG (DZYNA1437)

Ref. No.	Part No.	Description
IC1	U4076B	IC, Ringer
IC2	BA6566	IC, Speech
D5~ D8	SM1XN-02TPA 1SR139-200T-32	Diode
D11, D14, D19	1N4531T-77 MA178-TA	Diode
D13, D15~ D18	MA4140M-(TA) MTZJT-7715A RD15ES-T1	Zener Diode
VA1	NV082D07-TB1 ERZTC5AK820	Varistor
L1, L2	ERDS2TC0T	Fixed Resistor
L3	LHL08TB222J	Inductor
BZ1	PKM33EP-1001	Ceramic Ringer
SW1	SSSF113L9	Switch, Slide
HSW	DZZSP08034	Switch, Hook
CNP90	DF1B-9P-DS(21)	Connector
CNJ91	HJC0234-01-012	Jack, Modular
PC1	PC852 PS2532-1 PS2533-1 PC852 PC853	Photo Coupler
CR1	CSB455E24	Resonator
R1, R2	ERDS2TJ472T	Fixed Resistor
R3	ERDS2TJ562T	Fixed Resistor
R4	ERDS2TJ104T	Fixed Resistor
R5	ERDS2TJ183T	Fixed Resistor
R7	ERDS2TJ472T	Fixed Resistor
R8	ERDS2TJ623T	Fixed Resistor
R10	ERDS2TJ100T	Fixed Resistor
R13	ERDS2TJ750T	Fixed Resistor
R14	ERDS2TJ750T	Fixed Resistor
R15	ERDS2TJ332T	Fixed Resistor
R16	ERDS2TJ123T	Fixed Resistor
R18	ERDS2TJ153T	Fixed Resistor
R19	ERDS2TJ272T	Fixed Resistor
R20	ERDS2TJ222T	Fixed Resistor
R22	ERDS2TJ102T	Fixed Resistor
R23	EROS2TKF4700	Fixed Resistor
R24	EROS2TKF47R0	Fixed Resistor
R25	ERDS2TJ473T	Fixed Resistor
R26	ERDS2TJ103T	Fixed Resistor

Ref. No.	Part No.	Description
R27	ERDS2TJ104T	Fixed Resistor
R28	ERDS2TJ123T	Fixed Resistor
R29	ERDS2TJ123T	Fixed Resistor
R30	ERDS2TJ102T	Fixed Resistor
R31	TCW0.5	Tin Plating Wire
JP3~ JP6	TCW0.5	Tin Plating Wire
JPA	ERDS2TC0T	Fixed Resistor
JPB	ERDS2TC0T	Fixed Resistor
JPC	ERDS2TC0T	Fixed Resistor
JP2	TCW0.5	Tin Plating Wire
JPD	ERDS2TC0T	Fixed Resistor
JPE	ERDS2TC0T	Fixed Resistor
C1	ECQE2105KF3	Plastic Capacitor
C2	ECEA1HKA220I	Electrolytic Capacitor
C3	ECQB1H472JF3	Plastic Capacitor
C5	ECQE2103KF3	Plastic Capacitor
C6	ECEA1AKS221I	Electrolytic Capacitor
C7	ECEA1CKS220I	Electrolytic Capacitor
C8	ECEA1EKS100I	Electrolytic Capacitor
C4	ECEA1EKS100I	Electrolytic Capacitor
C10	ECQB1H472JF3	Plastic Capacitor
C11	ECQB1H223JF3	Plastic Capacitor
C12	ECQB1H223JF3	Plastic Capacitor
C13	ECQB1H823JF3	Plastic Capacitor
C14	ECQB1H102JF3	Plastic Capacitor
C15	ECQB1H182JF3	Plastic Capacitor
C16	ECBT1H102KB5	Ceramic Capacitor
C17	ECQB1H333JF3	Plastic Capacitor
C18	ECQB1H153JF3	Plastic Capacitor
C19	ECBT1H102KB5	Ceramic Capacitor
C20	ECQB1H153JF3	Plastic Capacitor
C21	ECQB1H333JF3	Plastic Capacitor
C22	ECQB1H223JF3	Plastic Capacitor
C23	ECEA1EKA4R7I	Electrolytic Capacitor
C24	ECBT1H102KB5	Ceramic Capacitor
C25	ECQB1H333JF3	Plastic Capacitor
C26	ECQE2473KF3	Plastic Capacitor

GPM (1/4)

Ref. No.	Part No.	Description
C5	C2012X7R1H103K	Capacitor, 0.1µF, 5%, 50V
	08055C103KATA	
	C0805C103K5RAC	
C6	C2012X7R1H103K	Capacitor, 0.1µF, 5%, 50V
	08055C103KATA	
	C0805C103K5RAC	
C7	C2012X7R1H103K	Capacitor, 0.1µF, 5%, 50V
	08055C103KATA	
	C0805C103K5RAC	
C16	C2012X7R1H103K	Capacitor, 0.1µF, 5%, 50V
	08055C103KATA	
	C0805C103K5RAC	
C24	C2012X7R1H103K	Capacitor, 0.1µF, 5%, 50V
	08055C103KATA	
	C0805C103K5RAC	
C25	C2012X7R1H103K	Capacitor, 0.1µF, 5%, 50V
	08055C103KATA	
	C0805C103K5RAC	
C31	C2012X7R1H103K	Capacitor, 0.1µF, 5%, 50V
	08055C103KATA	
	C0805C103K5RAC	
C32	C2012X7R1H103K	Capacitor, 0.1µF, 5%, 50V
	08055C103KATA	
	C0805C103K5RAC	
C36	C2012X7R1H103K	Capacitor, 0.1µF, 5%, 50V
	08055C103KATA	
	C0805C103K5RAC	
C37	C2012X7R1H103K	Capacitor, 0.1µF, 5%, 50V
	08055C103KATA	
	C0805C103K5RAC	
C38	C2012X7R1H103K	Capacitor, 0.1µF, 5%, 50V
	08055C103KATA	
	C0805C103K5RAC	
C43	C2012X7R1H103K	Capacitor, 0.1µF, 5%, 50V
	08055C103KATA	
	C0805C103K5RAC	
C44	C2012X7R1H103K	Capacitor, 0.1µF, 5%, 50V
	08055C103KATA	
	C0805C103K5RAC	
C45	C2012X7R1H103K	Capacitor, 0.1µF, 5%, 50V
	08055C103KATA	
	C0805C103K5RAC	

Ref. No.	Part No.	Description
C46	C2012X7R1H103K	Capacitor, 0.1µF, 5%, 50V
	08055C103KATA	
	C0805C103K5RAC	
C47	C2012X7R1H103K	Capacitor, 0.1µF, 5%, 50V
	08055C103KATA	
	C0805C103K5RAC	
C34	C2012X7R1H102K	Capacitor, 1nF, 50V
	08051C102KATA	
	C0805C102K5RAC	
C40	C2012X7R1H102K	Capacitor, 1nF, 50V
	08051C102KATA	
	C0805C102K5RAC	
C41	C2012X7R1H102K	Capacitor, 1nF, 50V
	08051C102KATA	
	C0805C102K5RAC	
C42	C2012X7R1H102K	Capacitor, 1nF, 50V
	08051C102KATA	
	C0805C102K5RAC	
C49	C2012X7R1H102K	Capacitor, 1nF, 50V
	08051C102KATA	
	C0805C102K5RAC	
C50	C2012X7R1H102K	Capacitor, 1nF, 50V
	08051C102KATA	
	C0805C102K5RAC	
C10	C2012C0G1H470J	Capacitor, 47pF, 50V
	08051A470JATA	
	C0905C470J5GAC	
C11	C2012C0G1H470J	Capacitor, 47pF, 50V
	08051A470JATA	
	C0905C470J5GAC	
C13	C2012C0G1H470J	Capacitor, 47pF, 50V
	08051A470JATA	
	C0905C470J5GAC	
C15	C2012C0G1H470J	Capacitor, 47pF, 50V
	08051A470JATA	
	C0905C470J5GAC	
C12	C2012C0G1H101J	Capacitor, 100pF, 5%, 50V
	08051A101JAT	
	C0805C101J5GAC	
C14	C2012C0G1H101J	Capacitor, 100pF, 5%, 50V
	08051A101JAT	
	C0805C101J5GAC	

GPM (2/4)

Ref. No.	Part No.	Description
C17	C2012C0G1H101J	Capacitor, 100pF, 5%, 50V
	08051A101JAT	
	C0805C101J5GAC	
C18	C2012C0G1H101J	Capacitor, 100pF, 5%, 50V
	08051A101JAT	
	C0805C101J5GAC	
C1	C3216X7R1H104KT	Capacitor, 1μF, 50V
	12065C104KATA	
	C1206C104K5RAC	
C3	C3216X7R1H104KT	Capacitor, 1μF, 50V
	12065C104KATA	
	C1206C104K5RAC	
C4	C3216X7R1H104KT	Capacitor, 1μF, 50V
	12065C104KATA	
	C1206C104K5RAC	
C8	C3216X7R1H104KT	Capacitor, 1μF, 50V
	12065C104KATA	
	C1206C104K5RAC	
C19	C3216X7R1H104KT	Capacitor, 1μF, 50V
	12065C104KATA	
	C1206C104K5RAC	
C21	C3216X7R1H104KT	Capacitor, 1μF, 50V
	12065C104KATA	
	C1206C104K5RAC	
C22	C3216X7R1H104KT	Capacitor, 1μF, 50V
	12065C104KATA	
	C1206C104K5RAC	
C23	C3216X7R1H104KT	Capacitor, 1μF, 50V
	12065C104KATA	
	C1206C104K5RAC	
C29	C3216X7R1H104KT	Capacitor
	12065C104KATA	
	C1206C104K5RAC	
C30	C3216X7R1H104KT	Capacitor, 1μF, 50V
	12065C104KATA	
	C1206C104K5RAC	
C33	C3216X7R1H104KT	Capacitor, 1μF, 50V
	12065C104KATA	
	C1206C104K5RAC	
C35	C3216X7R1H104KT	Capacitor, 1μF, 50V
	12065C104KATA	
	C1206C104K5RAC	

Ref. No.	Part No.	Description
C39	C3216X7R1H104KT	Capacitor, 1μF, 50V
	12065C104KATA	
	C1206C104K5RAC	
C48	C3216X7R1H104KT	Capacitor, 1μF, 50V
	12065C104KATA	
	C1206C104K5RAC	
R1	MCR10-1.0K-JW	Resistor, 1k, 5%, 1W
R2	MCR10-1.0K-JW	Resistor, 1k, 5%, 1W
R13	MCR10-1.0K-JW	Resistor, 1k, 5%, 1W
R14	MCR10-1.0K-JW	Resistor, 1k, 5%, 1W
R15	MCR10-1.0K-JW	Resistor, 1k, 5%, 1W
R18	MCR10-1.0K-JW	Resistor, 1k, 5%, 1W
R35	MCR10-1.0K-JW	Resistor, 1k, 5%, 1W
R39	MCR10-1.0K-JW	Resistor, 1k, 5%, 1W
R7	MCR10EZHMJW222	Resistor, 2.2k, 5%, 1W
R27	MCR10EZHMJW222	Resistor, 2.2k, 5%, 1W
R33	MCR10EZHMJW222	Resistor, 2.2k, 5%, 1W
R34	MCR10EZHMJW222	Resistor, 2.2k, 5%, 1W
R40	MCR10EZHMJW222	Resistor, 2.2k, 5%, 1W
R22	MCR10EZHUJW124	Resistor, 120k, 5%, 1W
	RM73B2AT124J	
	CRCW0805124J	
R24	MCR10EZHUJW124	Resistor, 120k, 5%, 1W
	RM73B2AT124J	
	CRCW0805124J	
R31	MCR10EZHUJW124	Resistor, 120k, 5%, 1W
	RM73B2AT124J	
	CRCW0805124J	
J3	00-6200-5304-30-000	Connector, 71F
	60 6200 430 710 000	Slider, 71F (Top Half Conn.)
J4	00-6200-5304-30-000	Connector, 71F
	60 6200 430 710 000	Slider, 71F (Top Half Conn.)
R12	MNR34K5ABJ103	Resistor, 10kx4, 5%, 63mW
	CN2BTE103J	
R29	MNR34K5ABJ103	Resistor, 10kx4, 5%, 63mW
	CN2BTE103J	
R30	MNR34K5ABJ103	Resistor, 10kx4, 5%, 63mW
	CN2BTE103J	
R36	MNR34K5ABJ103	Resistor, 10kx4, 5%, 63mW
	CN2BTE103J	
U14	HM65256BLFP-12	IC-Memory
	TC51832AFL-10	
U13	MC68EC000FN8	IC-MC68EC000, CPU

GPM (3/4)

Ref. No.	Part No.	Description
U9	LM324M	IC-LM324, Quad
	LM324D	
U8	LM339M	IC-LM339M
U7	L149L	IC-Linear, AMP
Q1	MMBT4401	NPN Transistor
	MMBT4401T1	
CR2	1N4002	Diode, 1N4002, 100V, 1A
CR3	1N4002	Diode, 1N4002, 100V, 1A
CR4	1N4002	Diode, 1N4002, 100V, 1A
CR5	1N4002	Diode, 1N4002, 100V, 1A
VR2	1N53548	Zener Diode, 17V, 5%, 5W
CR6	BAW56	Dual Diode, 70V
CR7	BAW56	Dual Diode, 70V
CR1	BAV99	Diode, BAV99
CR8	BAV99	Diode, BAV99
CR9	BAV99	Diode, BAV99
U5	AM27C512-150JC (Unprogrammed)	IC-OTP
XU5	87088-3240	Socket, 32SMT
L3	ACB2012M-040-LT	Indicator, 40Ω
	9C08052A2702JL	
R3	MCR10EZHW682	Resistor 6.8k, 5%, 1W
	RM73B2ATE682J	
	9C08052A68015L	
R4	MCR10EZHW682	Resistor, 6.8k, 5%, 1W
	RM73B2ATE682J	
	9C08052A68015L	
R25	MCR10EZHW682	Resistor, 6.8k, 5%, 1W
	RM73B2ATE682J	
	9C08052A68015L	
R32	MCR10EZHW682	Resistor, 6.8k, 5%, 1W
	RM73B2ATE682J	
	9C08052A68015L	
R41	MCR10EZHW682	Resistor, 6.8k, 5%, 1W
	RM73B2ATE682J	
	9C08052A68015L	
R42	MCR10EZHW682	Resistor, 6.8k, 5%, 1W
	RM73B2ATE682J	
	9C08052A68015L	
R6	RK73H2ATE7501D	Resistor, 7.5k, 5%, 1W
R23	MCR10EZHW473	Resistor, 47k, 5%, 1W
	RM73B2ATE473J	
R26	MCR10EZHW473	Resistor, 47k, 5%, 1W
	RM73B2ATE473J	

Ref. No.	Part No.	Description
R28	MCR10EZHW473	Resistor, 47k, 5%, 1W
	RM73B2ATE473J	
R21	MCR10EZHMJW273	Resistor, 27k, 5%, 1W
R8	MCR50JZHFX12E7	Resistor, 12.7k, 1%, 5W
	RK73H2HTE12E7F	
R9	MCR50JZHFX12E7	Resistor, 12.7k, 1%, 5W
	RK73H2HTE12E7F	
R10	MCR50JZHFX12E7	Resistor, 12.7k, 1%, 5W
	RK73H2HTE12E7F	
R11	MCR50JZHFX12E7	Resistor, 12.7k, 1%, 5W
	RK73H2HTE12E7F	
J2	CGP4503-0501	Connector, 3pn, 1.5mm
J8	CGP4502-0501	Connector, 2pn, 1.5mm
U15	L6221AD013TR	IC-L6221AD
J1	CGP4506-0501	Connector, 6pn, 1.5mm
J7	CGP4506-0501	Connector, 6pn, 1.5mm
C20	UMT1V22RMCH1TP	Capacitor, 22μF, 20%, 35V
	KRE35VB22RM6x5FT	
R5	RK73H2ATE1101D	Resistor, 1.10k, 5%, 1W
U6	L6201013TR	IC-L6201
W1	9C08052AR00FK	Resistor, 0Ω
VR1	TL431ACD	IC-Voltage Rgltr
Y1	LN-G8-542J-16MHZ	Xtal, 16mHz
	BC-491516.000	
J5	F8BS-PH-K-M	Connector, 8pn, 2.0mm
J6	F6B-PH-K-S	Connector, 6pn, 2.0mm
MP1	576802B03100	Heatsink
R16	MCR10EZ4JW221	Resistor, 220, 5%, 1W
	RM73B2AT221J	
R17	MCR10EZ4JW221	Resistor, 220, 5%, 1W
	RM73B2AT221J	
R19	MCR10EZ4JW221	Resistor, 220, 5%, 1W
	RM73B2AT221J	
R37	MCR10EZ4JW221	Resistor, 220, 5%, 1W
	RM73B2AT221J	
R38	MCR10EZ4JW221	Resistor, 220, 5%, 1W
	RM73B2AT221J	
C2	UPL1V151MPH6TD	Capacitor, 150μF, 35V, 20%
C9	UPL1V151MPH6TD	Capacitor, 150μF, 35V, 20%
L1	MMZ2012Y102B	Indicator, 1kΩ
L2	MMZ2012Y102B	Indicator, 1kΩ
Paper Sensor Asy	EE-SX1236-P2	Opto Sensor

GPM (4/4)

Ref. No.	Part No.	Description
Not Designated	850-004-02506XSK	Screw-M2.5, Taptite
U12	HP Custom Part	SP-IC, ASIC
U1	HP Custom Part	SP-IC, MUX
U2	HP Custom Part	SP-IC, MUX
U3	HP Custom Part	SP-IC, MUX
U4	HP Custom Part	SP-IC, MUX
U10	HP Custom Part	SP-IC, MUX
U11	HP Custom Part	SP-IC, MUX

POW 100V (ETXA39C7A) (1/2)

Ref. No.	Part No.	Description
C101	ECQU2A-MV	Plastic Film Capacitor, 250V, 0.1~0.47 μ F
	XA-M	
C102	ECKRRS-KB , ME	Ceramic Capacitor, AC125V, 100p~2200pF
	KC-K , M	
C103	ECKRRS-KB , ME	
	KC-K , M	
C104	ECKRRS-KB , ME	
	KC-K , M	
C105	ECKRRS-KB , ME	
	KC-K , M	
C106	ECQU2A-MV	
	XA-M	
C107	ECKRA-KB	Ceramic Capacitor, 1kV or 2kV, 470p~2200pF
	ECKRD-KB	
C108	ECKRRS-ME	Ceramic Capacitor, AC125V, 470p~4700pF
	KC-K , M	
C109	ECOS2DA-A , B	Electrolytic Capacitor, 200V, 180~330 μ F
	ECEC2DA-A , B	
C111	ECEA1VFS220	Electrolytic Capacitor, 35V, 22 μ F
C112	ECKR3A-KD	Ceramic Capacitor, 1kV or 2kV, 100p~470pF
	ECKR3D-KD	
C202	ECA1VFZ121	Capacitor, AC35V, 120 μ F
C203	ECQB1H-KF	Capacitor, AC50V, 8200p~0.068 μ F
	AMZ50K	
C204	ECQB1H473KF	Capacitor, AC50V, 0.047 μ F
	AMZ50K473	
C206	ECEA1VF	Capacitor, AC35V, 47~470 μ F
	ECA1VFZ	
C311	HRR2R-K	Capacitor, AC250V, 470p~2200pF
C312	ECQB1H-JF	Capacitor, AC50V, 0.01~0.047 μ F
	AMZ50J	
C313	ECQB1H-JF	Capacitor, AC50V, 470p~4700pF
	AMZ50J	
C321	ECEA1VFS220	Capacitor, AC35V, 22 μ F
C323	ECE1AFZ331	Capacitor, AC10V, 330 μ F
C324	ECEA1HGE220	Capacitor, AC50V, 22 μ F
C326	HRR2R-K	Capacitor, AC250V, 330p~2200pF
CN1	B2P3-VH	Connector, 7A, 250V
CN2	B6B-PH-KS	Connector
CN3	B5B-PH-KM	
D101	S1VBA60	Diode, 600V, 1.0A
D102	MA700A	Diode, 30V, 0.03A

Ref. No.	Part No.	Description
D103	RMPG06D	Diode, 200V, 1A
D104	ERA91-02	
	AL01Z	
D201	MA644	Diode
	MA649	
D311	1SS270A7	
	MA165	
D321	RMPG06D	
D323	ERA81-004	
F101	237 5A	Cartridge Fuse, 125V, 5A
	TSCR 5A	
L101	ELF-18D296F	Filter Choke, 0.8A, 5.6mH
L102	ELF-18D296F	
L103	EXCELD35V	Ferrite Bead Inductor, 7A, 1.1 μ H
	BA3406-2	
L105	EXCELD35V	
	BA3406-2	
L201	EXCELSA35T	Ferrite Bead Inductor
	BA3406-1	
L321	ELE-V1ROKA	Filter Choke
L322	EXCELSA35T	Ferrite Bead Inductor
	BA3406-1	
MC101	M-L30EX	Module, CTRL
	M-L32EX	
PC101	PS2501-1	Photo Coupler
	ON3131	
	PS2652	
	PC817	
	TLP634	
Q101	IRF1840	Field Effect Transistor, 40W, 500V
	2SK1567	Field Effect Transistor , 35W, 500V
Q201	2SC3311A	Transistor
	2SC1740	
Q311	2SK1060L1	Field Effect Transistor
Q312	2SC1318	Transistor
	2SD1423A	
Q321	2SA1309A	Transistor
Q322	2SA1309A	Transistor
R101	ERDS1TJ474	Carbon Film Resistor, 0.5W, 470k Ω
R102	ERDS1TJ183	Carbon Film Resistor, 0.5W, 18k Ω

POW 100V (ETXA39C7A) (2/2)

Ref. No.	Part No.	Description
R103	ERDS1TJ183	Carbon Film Resistor, 0.5W, 18kΩ
R104	ERDS1TJ183	
R105	ER0S2TKF	Metal Film Resistor, 0.25W, 15k~68.1kΩ
R106	ERDS2TJ	Carbon Film Resistor, 0.25W, 100~2.2kΩ
R107	ERDS2TJ	Carbon Film Resistor, 0.25W, 0~1.2kΩ
R108	ERG12SJU	Metal Film Resistor, 0.5W, 10~47Ω
R109	ERDS2TJ	Carbon Film Resistor, 0.25W, 3.9k~10kΩ
R110	ERDS2TJ	Carbon Film Resistor 0.25W, 10k~100kΩ
R111	ERG2SJU	Metal Film Resistor, 2W, 10~100Ω
R112	ERDS1TJ	Carbon Film Resistor, 0.5W, 4.7~18Ω
R201	ERDS2TJ562	Resistor, 0.25W 5.6kΩ
R202	ERDS2TJ	Resistor, 0.25W, 47~330Ω
R203	ERDS2TJ122	Resistor, 0.25W, 1.2kΩ
R204	ERDS2TJ562	Resistor, 0.25W, 5.6kΩ
R205	ERDS2TJ	Resistor, 0.25W, 8.2k~47kΩ
R206	ER0S2TKF	Resistor, 0.25W, 3k~4.02kΩ
R207	ER0S2TKF3321	Resistor, 0.25W, 3.32kΩ
R212	ER0S2TKF	Resistor, 0.25W, 4.02k~5.9kΩ
R311	ERDS1TJ223	Resistor, 0.5W 22kΩ
R312	ERDS2TJ	Resistor, 0.25W, 22~56Ω
R313	ERDS2TJ	Resistor, 0.25W, 330~4.7kΩ
R314	ERDS2TJ	Resistor, 0.25W, 1.5~3.9kΩ
R321	ERDS2TJ182	Resistor, 0.25W, 1.8kΩ
R322	ERG12SJU	Resistor, 0.25W, 0~100Ω
R323	ERDS2TJ122	Resistor, 0.25W, 1.2kΩ
R324	ERDS1TJ332	Resistor, 0.5W, 3.3Ω
R325	ERDS2TJ122	Resistor, 0.25W, 1.2kΩ
R328	ERDS2TJ181	Resistor, 0.5W, 180Ω
R329	ERX12SJUR56	Resistor, 0.5W, 0.56Ω
R330	ERDS1TJ	Resistor, 0.25W, 22~56Ω
SW101	SJ-W2P4A-30BB	Switch, 250V, 10A
TI	ETB28BF145XX	Transformer
T301	ETB19KA15X	
TH101	RCS1158R0	Thermistor, 1.26W or 2.2W, 8Ω
	NTH11D8R0	
VR101	EVMESA01B54	Variable Resistor, 0.3W, 50kΩ

Ref. No.	Part No.	Description
VR101	EVMESA01B54	Variable Resistor, 0.2W, 50kΩ
	AVVG067LP54	
Z101	ENC241D10	Varistor, 240V
	ERZC10DK241U	
Z102	ERZC10DK911U	Varistor, 910V
	ENC911D10	
Z103	ERZC10DK751U	Varistor, 750V
	ENC751D10	
Z104	ERZC10DK751U	
	ENC751D10	
ZD101	NA4091N	Zener Diode, 9.1V, 0.4W
	RD9.1JSB	
ZD201	NA4062N	Zener Diode
	RD6.2JSB	
ZD321	RD5.1JSB	
	MA4051N	

POW 200V (ETXA39C7E) (1/2)

Ref. No.	Part No.	Description
C101	ECQU2A-MV	Capacitor, 0.1~0.47 μ F / 250V
	XA-M	
C102	ECKRRS-KB, ME	Capacitor, 100p~2200pF / 400V
	KC-K, M	
C103	ECKRRS-KB, ME	
	KC-K, M	
C104	ECKRRS-KB, ME	
	KC-K, M	
C105	ECKRRS-KB, ME	
	KC-K, M	
C106	ECQU2A-MV	
	XA-M	
C108	ECKRRS-ME, KB	Capacitor, 470p~4700pF / 400V
	KC-KB, ME	
C109	ECOS2GA-A, B	Capacitor, 56~82 μ F / 400V
	ECEC2GA-A, B	
C111	ECEA1VFS220	Capacitor, 22 μ F / 35V
C112	ECKR3D-KD	Capacitor, 100p~470pF / 1kV or 2kV,
C114	ECKRRS-KB, ME	Capacitor, 470p~4700pF / 400V
	KC-K, M	
C202	ECA1VFZ121	Capacitor, 120 μ F / 35V
C203	ECQB1H-KF	Capacitor, 8200p~0.068 μ F / 50V
	AMZ50K	
C204	ECQB1H-KF	Capacitor, 1000P~0.22 μ F / 50V
	AMZ50K	
C206	ECEA1VGE	Capacitor, 47~470 μ F / 35V
	ECA1VFZ	
C311	HRR2R-K	Capacitor, 470p~2200pF / 250V
C321	ECEA1VFS220	Capacitor, 22 μ F / 35V
C323	ECE1AFZ331	Capacitor, 330 μ F / 10V
C324	ECEA1HGE220	Capacitor, 22 μ F / 50V
C326	HRR2R-K	Capacitor, 330p~2200pF / 250V
CN1	B2P3-VH	Connector
CN2	B6B-PH-KS	
CN3	B5BPHKM	
D101	S1VBA60	Diode
D102	MA700A	
D103	RMPG06D	
D104	ERA91-02	
	AL01Z	

Ref. No.	Part No.	Description
D201	MA644	Diode
	MA649	
D321	RMPG06D	
D323	ERA81-004	
F101	19181 3.15	Fuse, 3.15A/250V
L101	ELF-18D296F	Choke Filter
L102	ELF-18D296F	
L103	EXCELDR35V	Bead Inductor
	BA3406-2	
L105	EXCELDR35V, SR35T	
	BA3406-1, 2	
L201	EXCELSA35T	
	BA3406-1	
L321	ELE-V1ROKA	Choke
L322	EXCELSA35T	Bead Inductor
	BA3406-1	
MC101	M-L30EX	Module
	M-L32EX	
MC301	M-L32FX	
PC101	PS2652	Photo Coupler
	TLP634	
Q101	IRFPH40	FET
	2SK1341	
Q201	2SC3311A	Transistor
	2SC1740	
R101	ERDS1TJ474	Resistor, 470k Ω / 0.5W
R102	ERDS1TJ683	Resistor, 68k Ω / 0.5W
R103		
R104		
R105	EROS2TKF	Resistor, 15k~68k Ω / 0.25W
R106	ERDS2TJ	Resistor, 100~2.2k Ω / 0.25W
R107		Resistor, 0~1.2k Ω / 0.25W
R108	ERG12SJU	Resistor, 10~47 Ω / 0.5W
R109	ERDS2TJ	Resistor, 3.9k~10k Ω / 0.25W
R111	ERG2SJU	Resistor, 1~100 Ω / 2W
R112	ERDS1TJ	Resistor, 1~47 Ω / 0.5W
R114	ERDS1TJ683	Resistor, 68k Ω / 0.5W
R115		
R116		
R201	ERDS2TJ272	Resistor, 2.7k Ω / 0.25W
R202	ERDS2TJ	Resistor, 47~330 Ω / 0.25W
R203	ERDS2TJ122	Resistor, 1.2k Ω / 0.25W
R204	ERDS2TJ562	Resistor, 5.6k Ω / 0.25W

POW 200V (ETXA39C7E) (2/2)

Ref. No.	Part No.	Description
R205	ERDS2TJ	Resistor, 8.2k~47k Ω / 0.25W
R206	EROS2TKF	Resistor, 3k~4.02k Ω / 0.25W
R207	EROS2TKF3321	Resistor, 3.32k Ω / 0.25W
R212	EROS2TKF	Resistor, 4.02k~5.9k Ω / 0.25W
R213	ERDS2TJ272	Resistor, 2.7k Ω / 0.25W
R321	ERDS2TJ182	Resistor, 1.8k Ω / 0.25W
R322	ERG12SJU	Resistor, 0~100 Ω / 0.25W
R323	ERDS2TJ222	Resistor, 2.2k Ω / 0.25W
R324	ERDS1TJ122	Resistor, 1.2k Ω / 0.5W
R328	ERDS2TJ221	Resistor, 220 Ω / 0.5W
R329	ERX12SJUR56	Resistor, 0.56 Ω / 0.5W
SW101	SJ-W2P4A-30BB	Switch
TI	ETB28BF118XX	Transformer
T301	ETB19KA15X	
TH101	NTH13D120	Thermistor
VR101	EVMESA01B54	Variable Resistor
	AVVG067LP54	
Z101	ENC241D10	Varistor
	ERZC10DK431U	
ZD101	NA4130N	Zener Diode
	RD13JSB	
ZD201	NA4062N	
	RD6.2JSB	

POW 100V (DS043L) (1/2)

Ref. No.	Part No.	Description
SW1	SE-W2P2A-30BB	Switch, AC250V, 4A
		Switch, AC125V, 6A
F1	SB3.15	Ceramic Fuse, AC125V, 3.15A
CN1	B2P3-VH	Connector, 250V, 7A
CN2	B6B-PH-K-S	Connector, 250V, 2A
CN3	B5B-PH-K-M	Connector, 250V, 2A
T1	EXT43520-253	Transformer
L1	HR-24-103	Reactor
FB51	BL01RN1	Ferrite Beads
RC1	D3SBA40	Rectifier Stack, 400V, 4A
	D3SB40	
	RBV-404	
RC51	FML-12S	Rectifier Stack
D1	RU1P	Diode, 1000V, 0.4A
D2	1GU42	Diode, 400V, 1A
	AG01	Diode, 400V, 0.7A
	D1NK40	Diode, 400V, 0.8A
D3	AU02	Diode, 400V, 0.8A
D4	1S2076	Diode, 30V, 0.15A
	1S953	
D51	RK44	Diode
D52	RG4Z	Diode
D53	RZ1040	Diode
D5	RD15ES	Zener Diode, 15V, 0.4W
	HZS15N	
D6	RD6.8ES	Zener Diode, 6.8V, 0.4W
	HZS6.8N	
PC1	PS2501-1	Photo Coupler, Break Down Voltage, AC5000V
	TLP621	
	PC817	
Z1	STR-S6303	IC, 500V, 10A
Z51	SE024N	IC
Z52	UPC7805AHF	IC
	TA7805S	
R2, R3	RSMF2SL22KΩJ	Metal Oxide Resistor, 2W, 22kΩ
	RSS2L15-6 22KΩJ	
R4	RSMF2SL47ΩJ	Metal Oxide Resistor, 2W, 47Ω
	RSS2L15-6 47ΩJ	
R5	SPR1 L12.5 220KΩJ	Metal Oxide Resistor, 1W, 220kΩ
R6	RSMF3SL150ΩJ	Metal Oxide Resistor, 3W, 150Ω
	RSS3L20-10 150ΩJ	
R11	RSMF2SL0.33ΩJ	Metal Oxide Resistor, 2W, 0.33Ω
	RSSX2L15-6 0.33ΩJ	

Ref. No.	Part No.	Description
R12	RSMF3SL10ΩJ	Metal Oxide Resistor, 3W, 10Ω
	RSS3L20-10 10ΩJ	
R53	ERG-2SJW102E	Metal Oxide Resistor
	RSMF2RT 1KΩJ	
R54	ERC-1SJW471E	Metal Oxide Resistor
	RSMF1RT 470ΩJ	
R55	ERG-2SJW1S2E	Metal Oxide Resistor
	RSMF2RT 1.5KΩJ	
RX1	RDMF14	Carbon Resistor, 1/4W, 2.2Ω~100kΩ
	RDF16S	
RX2	RDMF14	Carbon Resistor, 1/4W, 2.2Ω~100kΩ
	RDF16S	
RX3	RDMF14	Carbon Resistor, 1/4W, 2.2Ω~100kΩ
	RDF16S	
R1	RDF14 330KΩJ	Carbon Resistor, 1/4W, 330kΩ
	RDF25S 330KΩJ	
R7	RDMF14 8.2KΩJ	Carbon Resistor, 1/4W, 8.2kΩ
	RDF16S 8.2KΩJ	
R8	RF25S 1ΩJ	Carbon Resistor, 1/4W, 1Ω
R10	RDMF14 6.8KΩJ	Carbon Resistor, 1/4W, 6.8kΩ
	RDF16S 6.8KΩJ	
R51	RDMF14 1.8KΩJ	Carbon Resistor, 1.8kΩ
	RDF16S 1.8KΩJ	
R56	RDMF14 220ΩJ	Carbon Resistor, 220Ω
	RDF16S 220ΩJ	
C6	200SXS220MZ28	Electrolytic Capacitor, 220V, 220μF
C8	LXF63VB-68J16	Electrolytic Capacitor, 63V, 68μF
C9	UPR1J101MPH	Electrolytic Capacitor, 63V, 100μF
C52	35YXB1000M	Electrolytic Capacitor
C53	LXF10VB-1200J25	Electrolytic Capacitor
C54	UPL1V22MPH	Electrolytic Capacitor
CX1	50SMC103K ST	Plastic Film Capacitor, 50V, 0.001μF~1μF
	50SMC104K ST	
	50SMC105K ST	
C1	CF-KH22E224M	Plastic Film Capacitor, AC250V, 0.22μF
C2	QEX2E104KTPT	Plastic Film Capacitor, AC250V, 0.1μF
	XA104	
	ECQ-UV104	
C7	ECQ-B1H473KF	Plastic Film Capacitor, 50V, 0.047μF

POW 100V (DS043L) (2/2)

Ref. No.	Part No.	Description
C12	ECQ-E2104S	Plastic Film Capacitor, 250V, 0.1 μ F
C55	50SMC104K ST	Plastic Film Capacitor
C4, C5	DE7100F222MVA1-KC	Ceramic Capacitor, AC125V, 2200pF, AC250V, 2200pF
	CS13-E2GA222MY	Ceramic Capacitor, AC125V, 2200pF
	NS	
C10	DE7100F472MVA1-KC	Ceramic Capacitor, AC125V, 4700pF, AC250V, 4700pF
	CS	Ceramic Capacitor, AC125V, 4700pF
	NS	
C11	DE0905R471K2K	Ceramic Capacitor, 2kV, 470pF
	CK45R30D471K	
C51	DE1307R222K1K	Ceramic Capacitor
	CK45R3AD222K	
C56	UP050F104Z	Ceramic Capacitor
C57	UP050F104Z	Ceramic Capacitor
SQ1	DSA-362MA	Surge Absorber, 3600V
NR1	240NR10D	Ceramic Varistor, 240V
	ERZ-C10DK241U	
TH1	8D-11F2	Thermistor, 8 Ω , Ta=25°C
	NTH11D8ROLA	
NR2	470NR-10D	Ceramic Varistor, 470V
	ERZ-C10DK471U	
C13		Short
FB1		Short
RC52		Short

POW 100V (DS069L)

Ref. No.	Part No.	Description
F1	AC125V 3A	Glass Fuse
T1	EXT43520-402	Transformer
L1	ELF18D290G	Reactor
L51	PJ8-221	Reactor
D1	RL1N4004	Diode
	S5688G	
D2~4	1GU42	Diode
	EG01	
D5~6	1S2473	Diode
	1S2076	
D7~10	RL1N4004	Diode
	S5688G	
D51	HER303	Diode
D52	EK06	Diode
D53	11DQ04	Diode
D54	RD6.8F	Zener Diode
Q1	2SD1858	Transistor
Q2	2SC1740S	Transistor
PC1	PC817	Photo Coupler
	TLP621	
	PS2501	
Z1	STR-S6707	IC
Z51	MC34063A	IC
Z52	SE024N	IC
Z53	μPC79L12J	IC
SW1	SWA206A-R/A	Switch
C3	HFG35V 220μF	Electrolytic Capacitor
C6	NHG200V 180μF	Electrolytic Capacitor
C11	HFG63V 22μF	Electrolytic Capacitor
C52	HFG35V 1000μF	Electrolytic Capacitor
C53	HFG10V 1000μF	Electrolytic Capacitor
C54	HFG35V 220μF	Electrolytic Capacitor
CX51	50F2M102K~50SMC104K	Film Capacitor
C1	3362-104	Film Capacitor
C7	50F2M102K	Film Capacitor
C55	50F2M104K	Film Capacitor
C57~58	50F2M102K	Film Capacitor
C2	SCF2G472M12BF	Ceramic Capacitor
	KC472S	
C4~5	SCE2G222M12BF	Ceramic Capacitor
	KC222S	
C10	SCF2G472M12BF	Ceramic Capacitor
	KC472F	

Ref. No.	Part No.	Description
C8	CK45R3AD222K	Ceramic Capacitor
C56	UP050F104Z	Ceramic Capacitor
R2	RSF1BL 15KΩJ	Metal Oxide Resistor
R3	RSMF12B 2.2ΩJ	Metal Oxide Resistor
R8	RSMF2SL 0.33ΩJ	Metal Oxide Resistor
RX1	RDMF14-FX 2.2ΩJ~1KΩJ	Carbon Resistor
RX2	RDMF14-FX 2.2ΩJ~100KΩJ	Carbon Resistor
R1	RDF25SM10-13 330KΩJ	Carbon Resistor
R5	RDMF14-FX 1KΩJ	Carbon Resistor
R6	RDMF14-FX 220ΩJ	Carbon Resistor
R7	RDMF14-FX 390ΩJ	Carbon Resistor
R10	RDMF14-FX 220ΩJ	Carbon Resistor
R12	RDMF14-FX 3.3KΩJ	Carbon Resistor
R13	RDMF14-FX 4.7KΩJ	Carbon Resistor
R52	RDMF14-FX 1.8KΩJ	Carbon Resistor
R53	RDMF14-FX 6.8KΩJ	Carbon Resistor
R54	RDMF14-FX 2.4KΩJ	Carbon Resistor
R22	RDMF14-FX 2.2KΩJ	Carbon Resistor
RX52	FRN14FB 0.1ΩJ~10ΩJ	Resistor
TH1	10D-9 F2	Thermistor
	NTH9D100LA	
SQ1	DSA-251MA	Surge Absorber
NR1	SAS-221KD10	Ceramic Varistor
	220NR-10D	
NR3	SAS-471KD10	Ceramic Varistor
	470NR-10D	
FB51	BL02RN1	Ferrite Bead
CN1	B2P3-VH	Connector
CN2	B6B-PH-K-S	Connector
CN3	B5B-PH-K-M	Connector
CX52~53	50F2M102K~50SMC105K	Open
RX3	FRN14FB 0.1ΩJ~10ΩJ	Open
RX51	RDMF14-FX 2.2ΩJ~100KΩJ	Short

POW 200V (DS043H) (1/2)

Ref. No.	Part No.	Description
SW1	SE-W2PA-30BB	Switch, AC250V, 4A
		Switch, AC125V, 6A
F1	19181 AC250V 2A	Ceramic Fuse, AC250V, 2A
CN1	B2P3-VH	Connector, 250V, 7A
CN2	B6B-PH-K-S	Connector, 250V, 2A
CN3	B5B-PH-K-M	Connector, 250V, 2A
T1	EXT43540-247	Transformer
L1	HL-28-473	Reactor
FB51	BL01RN1	Ferrite Beads
RC1	D3SBA60	Rectifier Stack, 600V 4A
	D3SB60	
	RBV-406	
RC51	FML-12S	Rectifier Stack, 200V, 5A
D1	RU1P	Diode, 1000V, 0.4A
D2	AP01C	Diode, 1000V, 0.2A
D3	AU02	Diode, 400V, 0.8A
D4	1S2076	Diode, 30V, 0.15A
	1S953	
D51	RK44	Diode, 40V, 3A
D52	RK49	Diode, 90V, 3.5A
D53	RZ1040	Diode
D5	RD15ES	Zener Diode, 15V, 0.4W
	HZS15N	
D6	RD6.8ES	Zener Diode, 6.8V, 0.4W
	HZS6.8N	
PC1	PS2652	Photo Coupler, Break Down Voltage AC5000V
	PC111	
	TLP634	Photo Coupler, Break Down Voltage AC4000V
Z1	STR-S6307	IC, 850V, 6A
Z51	SE024N	IC
Z52	UPC7805AHF	IC, 5V, 1A
	TA7805S	
R11	BPR26 2W 0.68ΩJ	Ceramic Resistor, 2W, 0.68
R2, R3	RSMF2SL 100KΩJ	Metal Oxide Resistor, 2W, 100kΩ
	RSS2L15-6 100KΩJ	
R4	RSMF680ΩJ	Metal Oxide Resistor, 2W, 680Ω
	RSS2L15-6 680ΩJ	
R5	SPR1 L12.5 330KΩJ	Metal Oxide Resistor, 1W, 330kΩ
R6	RSMF3SL150ΩJ	Metal Oxide Resistor, 3W, 150Ω
	RSS3L20-10 150ΩJ	
R12	RSMF3SL22ΩJ	Metal Oxide Resistor, 3W, 22Ω
	RSS3L20-10 22ΩJ	

Ref. No.	Part No.	Description
R53	RSMF2RT 1KΩJ	Metal Oxide Resistor, 2W, 1kΩ
	ERG-2SJW102E	
R54	RSMF1RT 470ΩJ	Metal Oxide Resistor, 1W, 470Ω
	ERG-1SJW471E	
R55	RSMF2RT 1.5KΩJ	Metal Oxide Resistor, 2W, 1.5kΩ
	ERG-2SJW152E	
RX1	RDMF14	Carbon Resistor, 1/4W, 2.2Ω~100kΩ
	RDF16S	
RX2	RDMF14	Carbon Resistor 1/4W, 2.2Ω~100kΩ
	RDF16S	
RX3	RDMF14	Carbon Resistor, 1/4W, 2.2Ω~100kΩ
	RDF16S	
R1	RDF14 680KΩJ	Carbon Resistor, 1/4W, 680kΩ
	RDF25S 680KΩJ	
R7	RDMF14 2.7KΩJ	Carbon Resistor, 1/4W, 2.7kΩ
	RDF16S 2.7KΩJ	
R8	RF25S 1ΩJ	Carbon Resistor, 1/4W, 1Ω
R10	RDMF14 12KΩJ	Carbon Resistor, 1/4W, 12kΩ
	RDF16S 12KΩJ	
R51	RDMF14 1.8KΩJ	Carbon Resistor, 1/4W, 1.8kΩ
	RDF16S 1.8KΩJ	
R56	RDMF14 220ΩJ	Carbon Resistor, 1/4W, 220Ω
	RDF16S 220ΩJ	
C6	400SX56MZ28	Electrolytic Capacitor , 400V, 56μF
C8	JPL1J680MPH6	Electrolytic Capacitor , 63V, 68μF
C9	JPR1J101MPH	Electrolytic Capacitor , 63V, 100μF
C52	35YXB1000M	Electrolytic Capacitor, 35V, 1000μF
C53	LXF10VB-1200J25	Electrolytic Capacitor , 35V, 390μF
C54	JPL1V221MPH6	Electrolytic Capacitor, 35V, 220μF
CX1	50SMC103K ST	Plastic Film Capacitor 50V, 0.001~1 μF
	50SMC104K ST	
	50SMC105K ST	
C1	CF-KH22E224M	Plastic Film Capacitor, AC250V, 0.22μF
C2	QEX2E104KTPT	Plastic Film Capacitor, AC250V, 0.1μF
	XA104	
C7	ECQ-B1H473KF	Plastic Film Capacitor, 50V, 0.047μF

POW 200V (DS043H) (2/2)

Ref. No.	Part No.	Description
C12	ECQ-E4223S	Plastic Film Capacitor, 400V, 0.022μF
C55	50SMC104K ST	Plastic Film Capacitor, 50V, 0.1μF
C56	50SMC224K ST	Plastic Film Capacitor, 50V, 0.22μF
C4, C5	DE7100F222MVA1-KC	Ceramic Capacitor, AC125V, 2200pF, AC250V, 2200pF, AC400V, 2200pF
	CS13-E2GA222MY	
	NS	
C10	DE7150F472MVA1-KC	Ceramic Capacitor, AC125V, 4700pF, AC250V, 4700pF, AC400V, 4700pF
C11	CK45R3DD101K	Ceramic Capacitor, 2kV, 100pF
C51	CK45R3AD472K	Ceramic Capacitor, 1kV, 4700pF
	DE1707R472K1K	
C57	JP050F104Z	Plastic Film Capacitor, 50V, 0.1μF
NR1	470NR-10D	Ceramic Varistor, 470V
	ERZ-C10DK471U	
TH1	16D-9	Thermistor, 16Ω, Ta=25°C
	NTH9D160LA	
C13		Short
FB1		Short
RC52		Short Jumper
	D5S4M	Rectifier, 40V, 5A
NR3		Open
SQ1		Open

UF-305 / UF-315 / PX-305 / UF-A8300 Extension Cable

No.	Part No.	Pin	QTY	Connector	Note
1	JH200-0018	2	3	CNP10	
				CNP9	
				CNP3	
2	JH200-0016	5	1	CNP1	
3	JH200-0013	6	1	CNP4	
4	JH200-0023	7	1	CNP8	
5	JH200-0022	8	1	CNP6	
6	JH200-0003	9	1	CNP7	
7	JH200-0014	10	2	CNP5	
8	JH200-0011	15	1	CNP2	